

FIG. 1

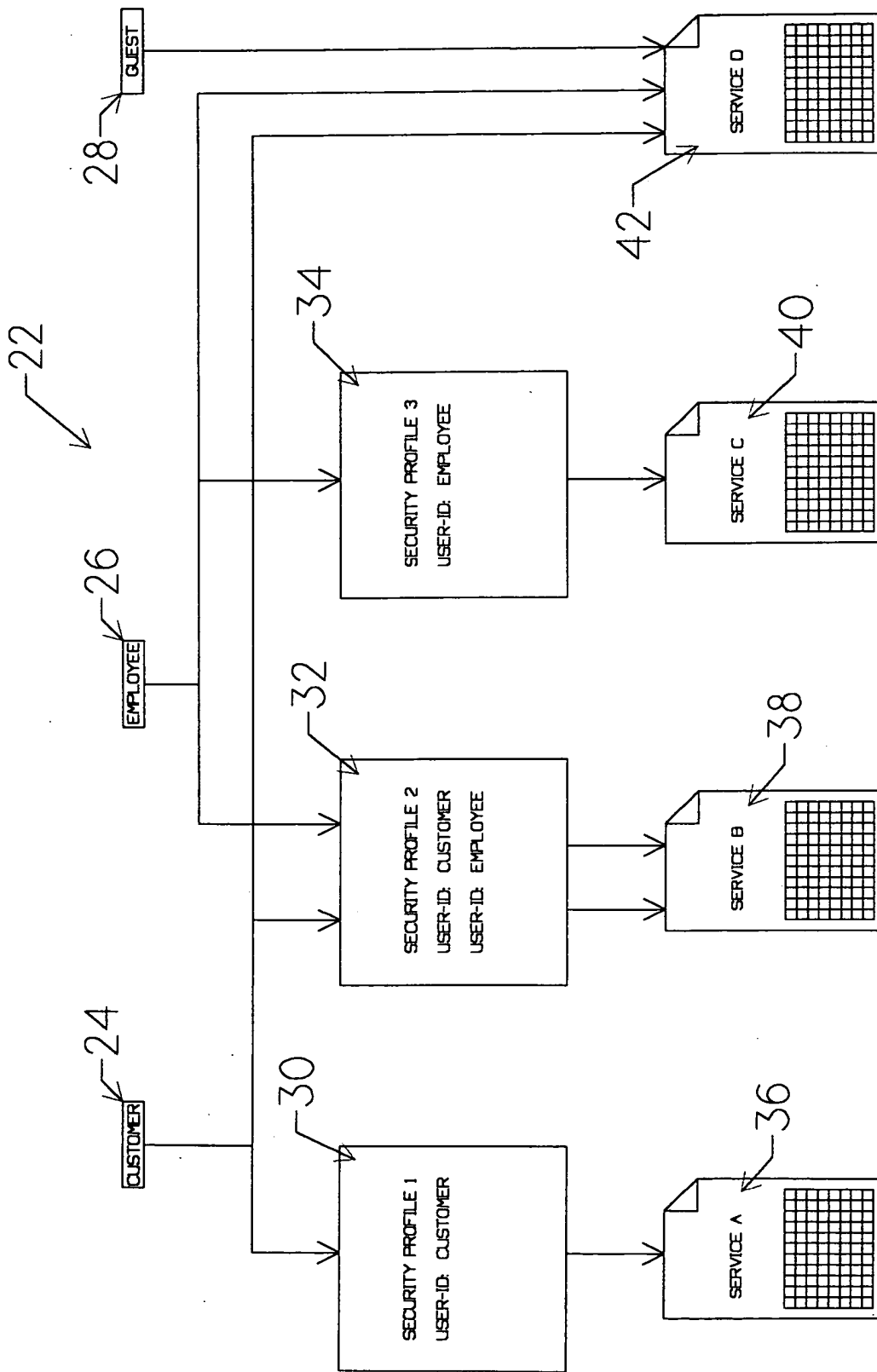


FIG. 2

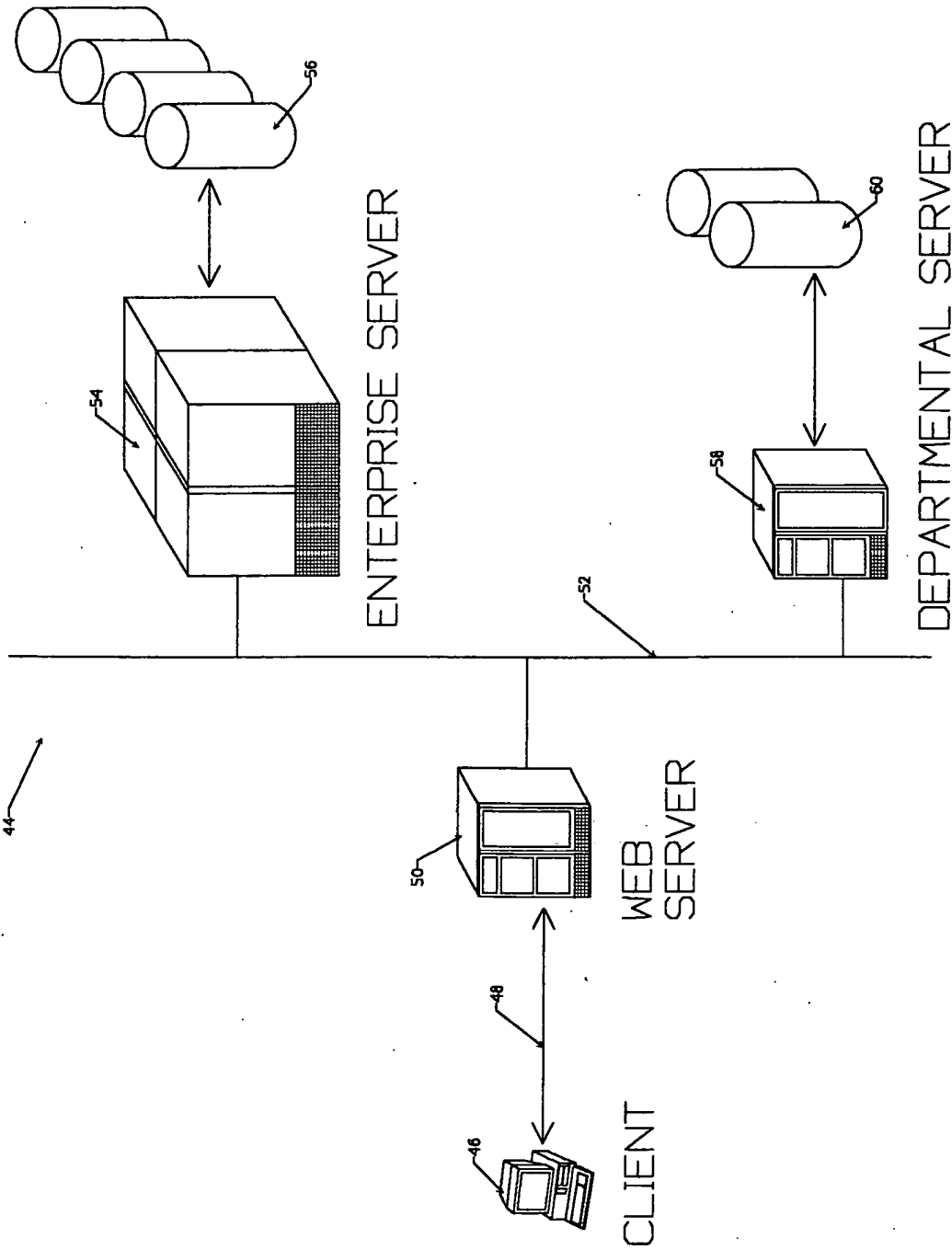


FIG. 3

FIG. 4

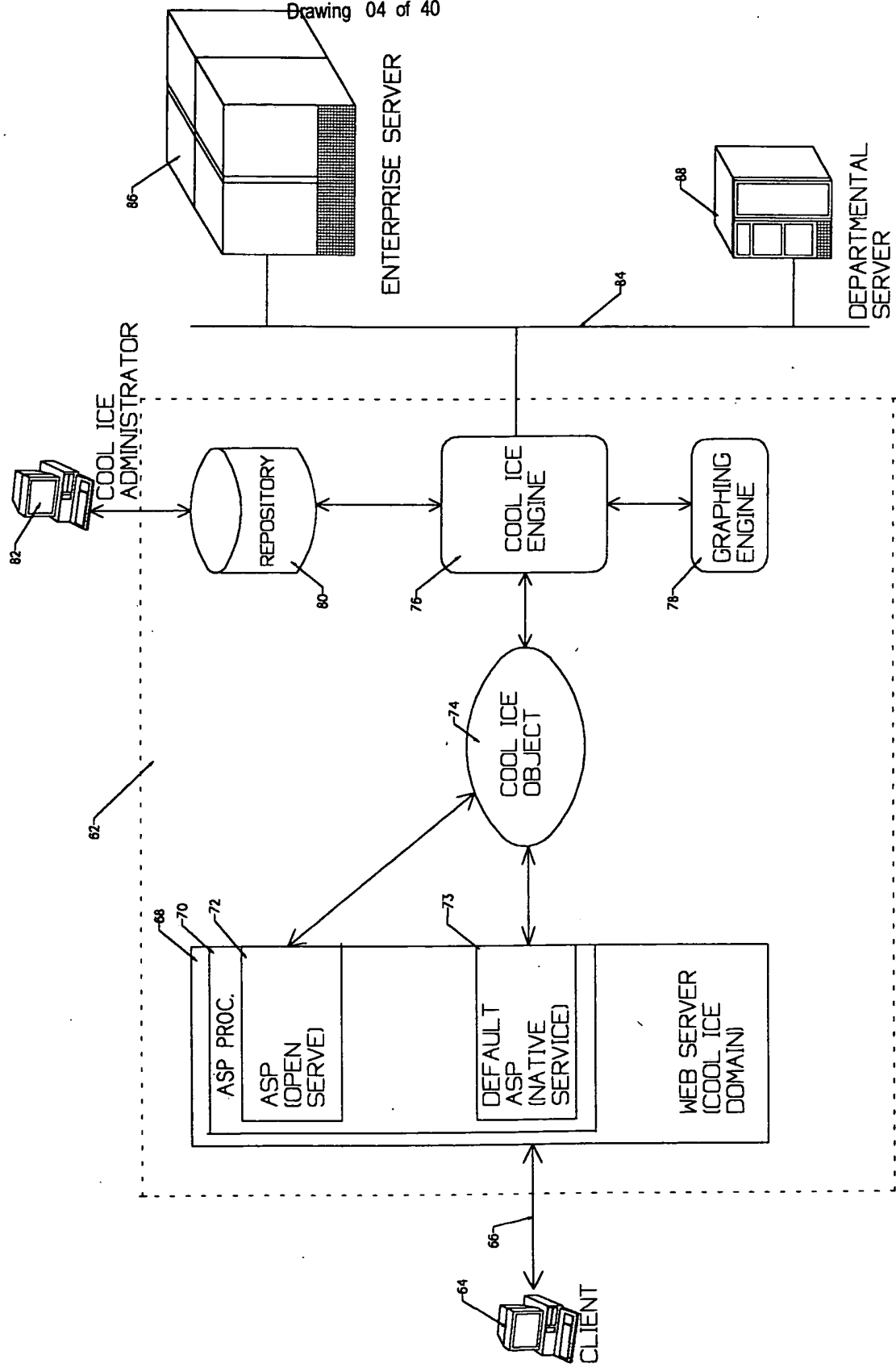


FIG. 4

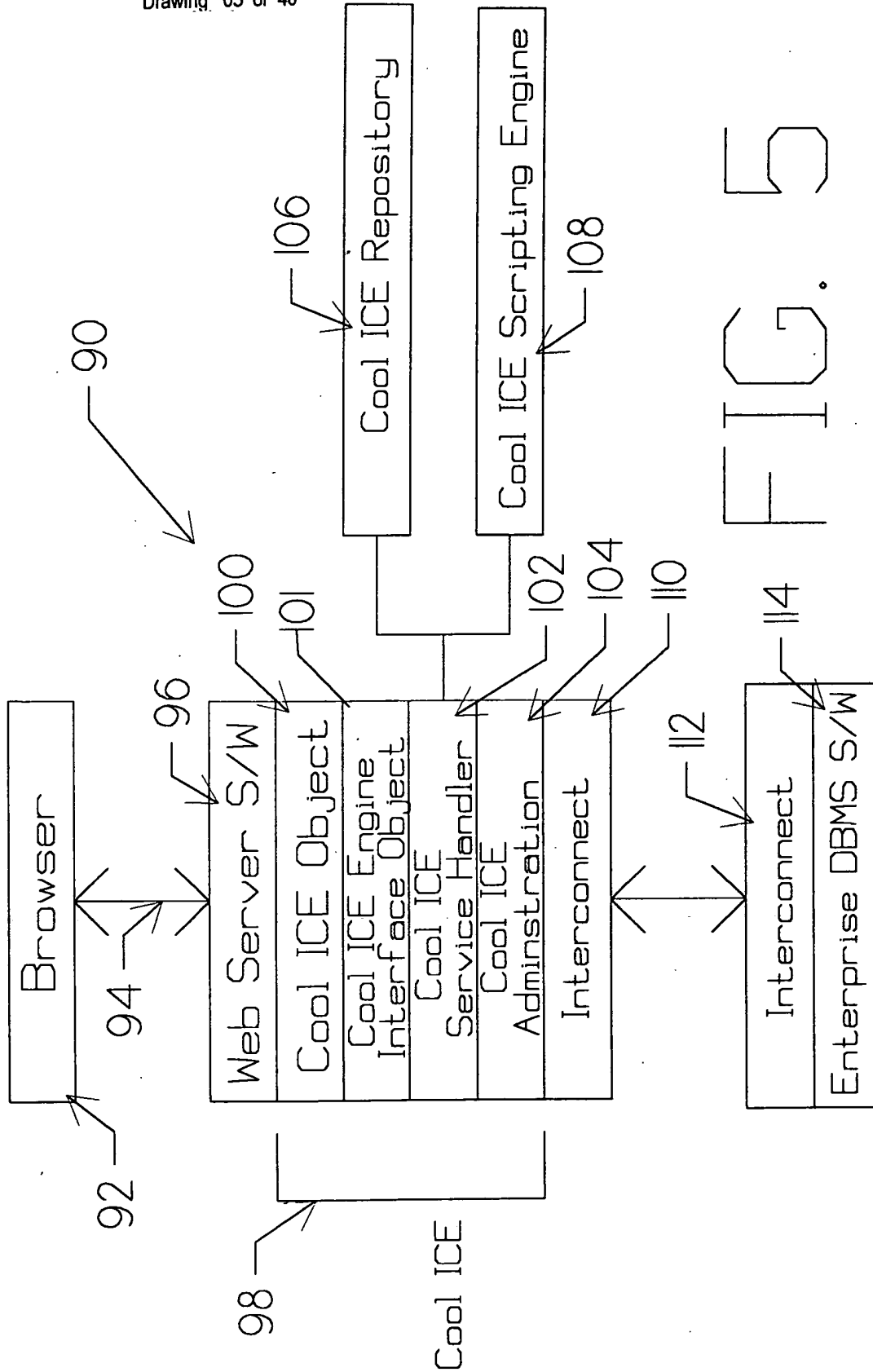


FIG. 5

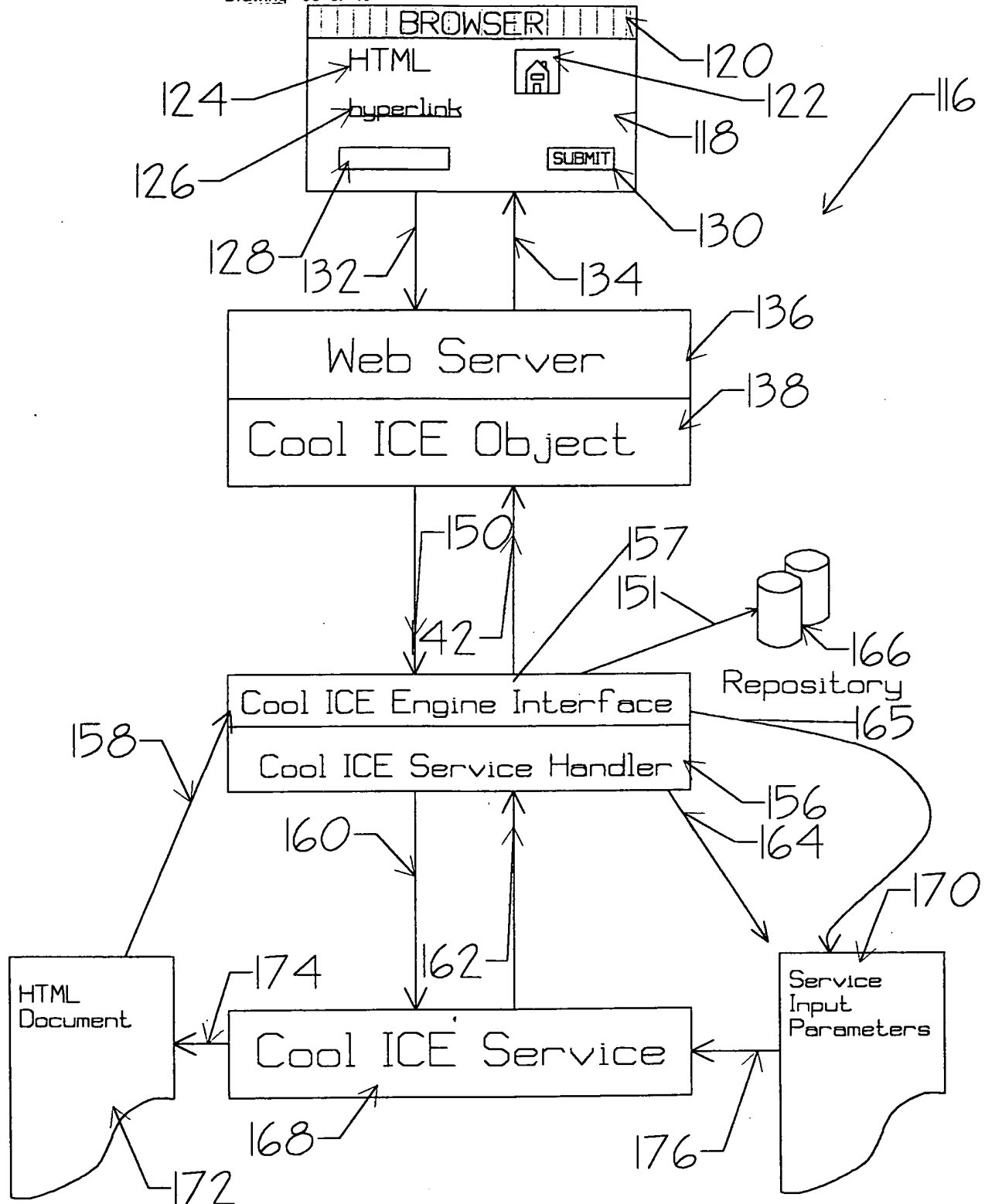


FIG. 6

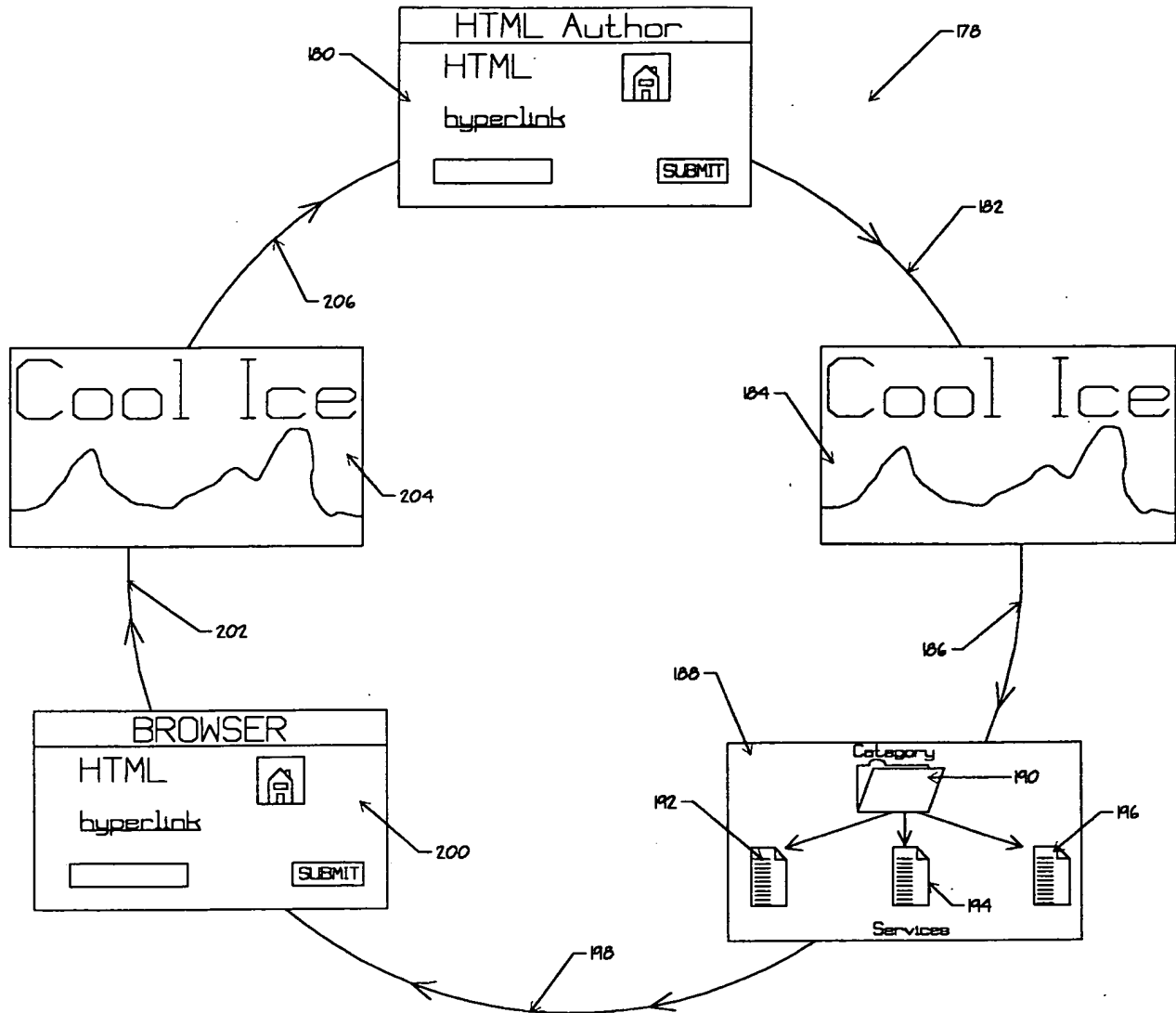


FIG. 7

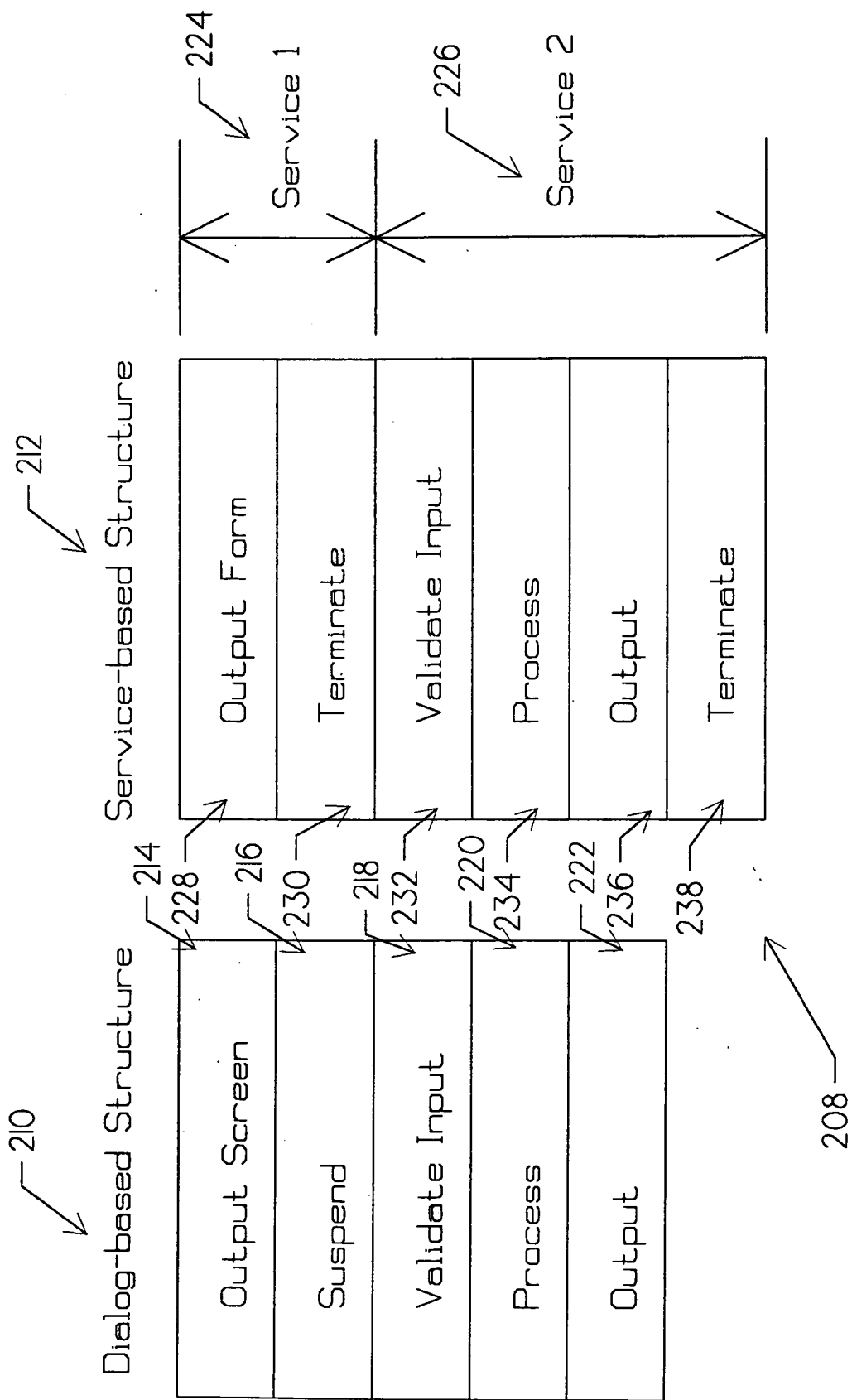


FIG. 8



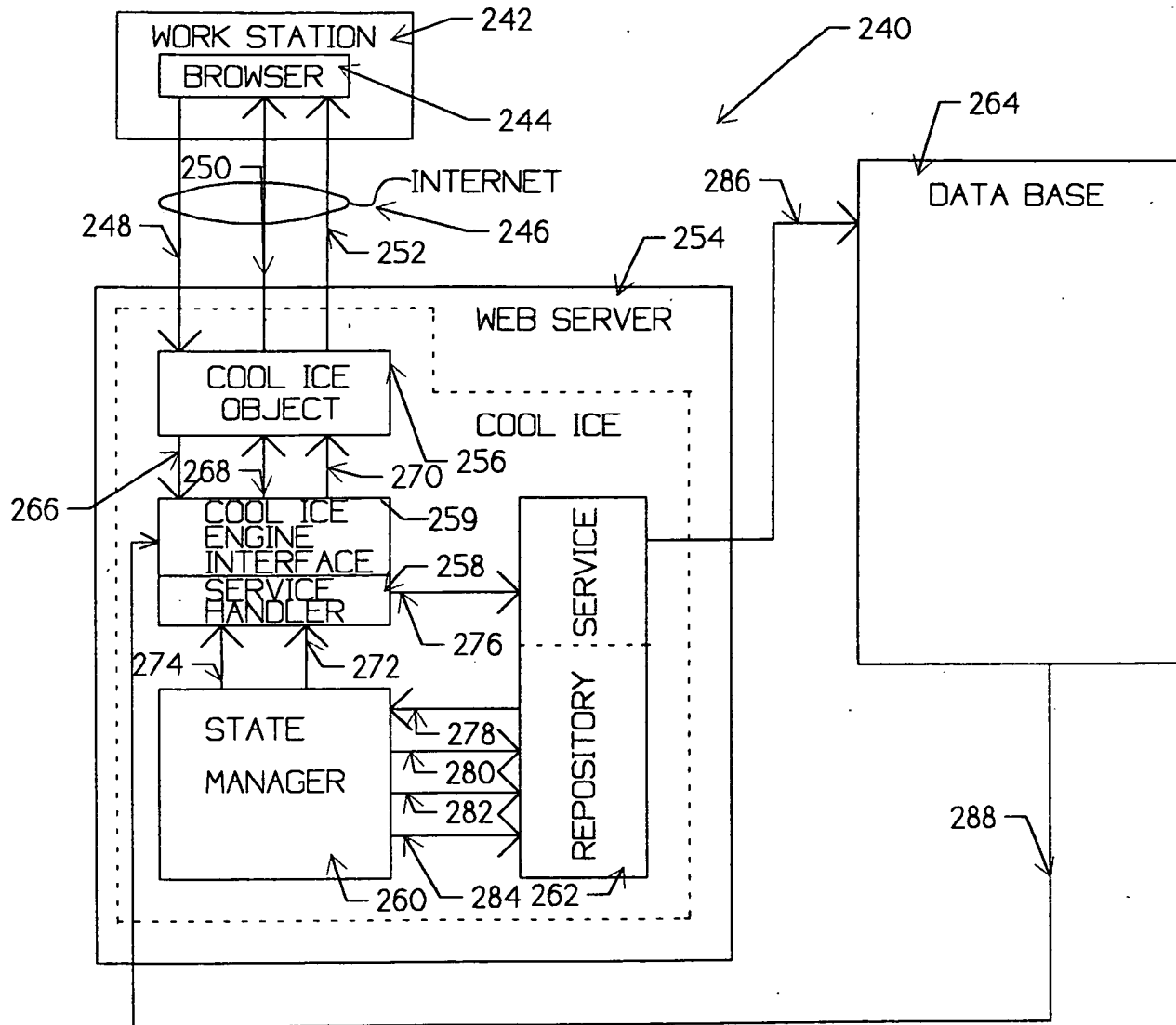


FIG. 9

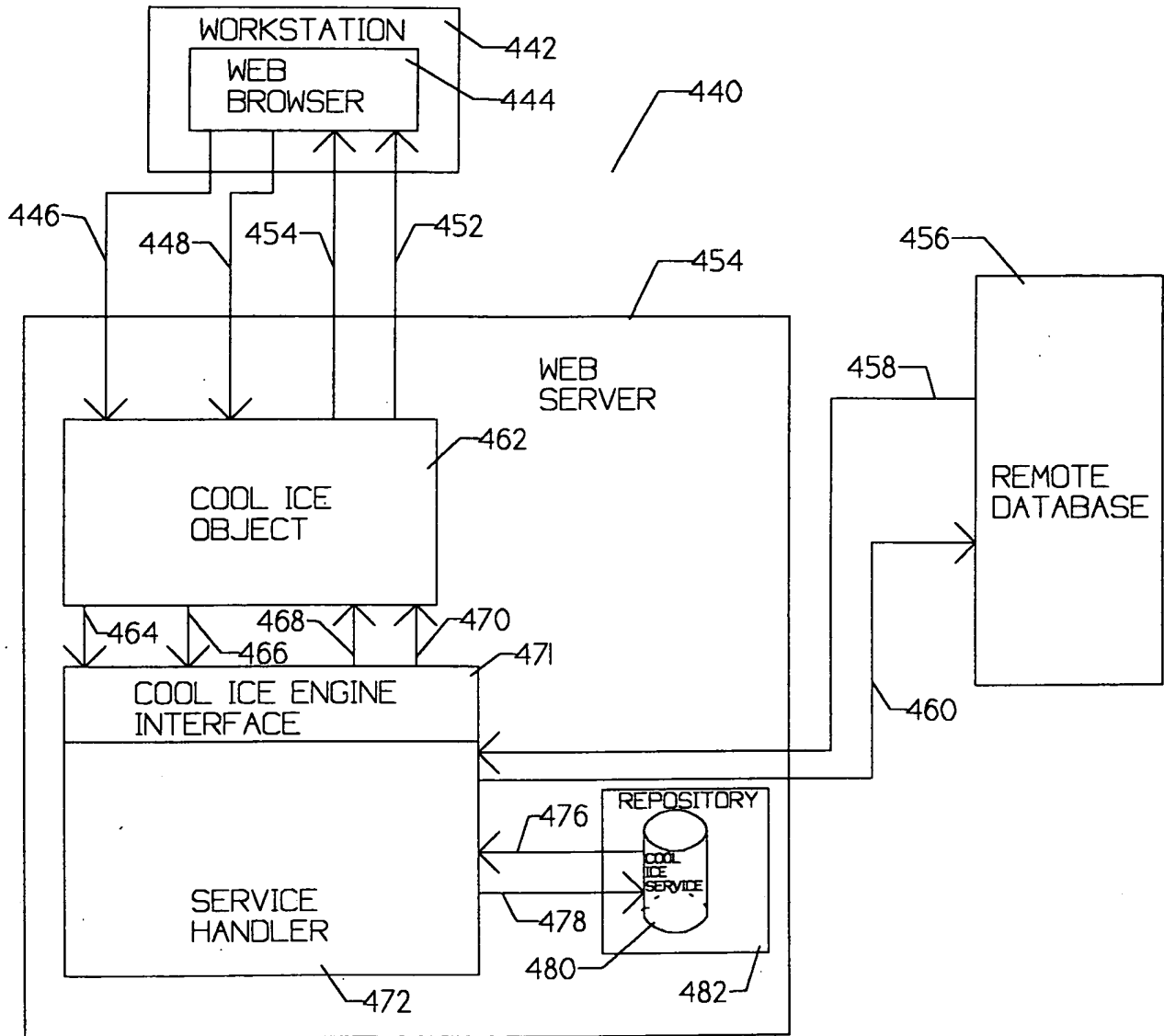


FIG. 10

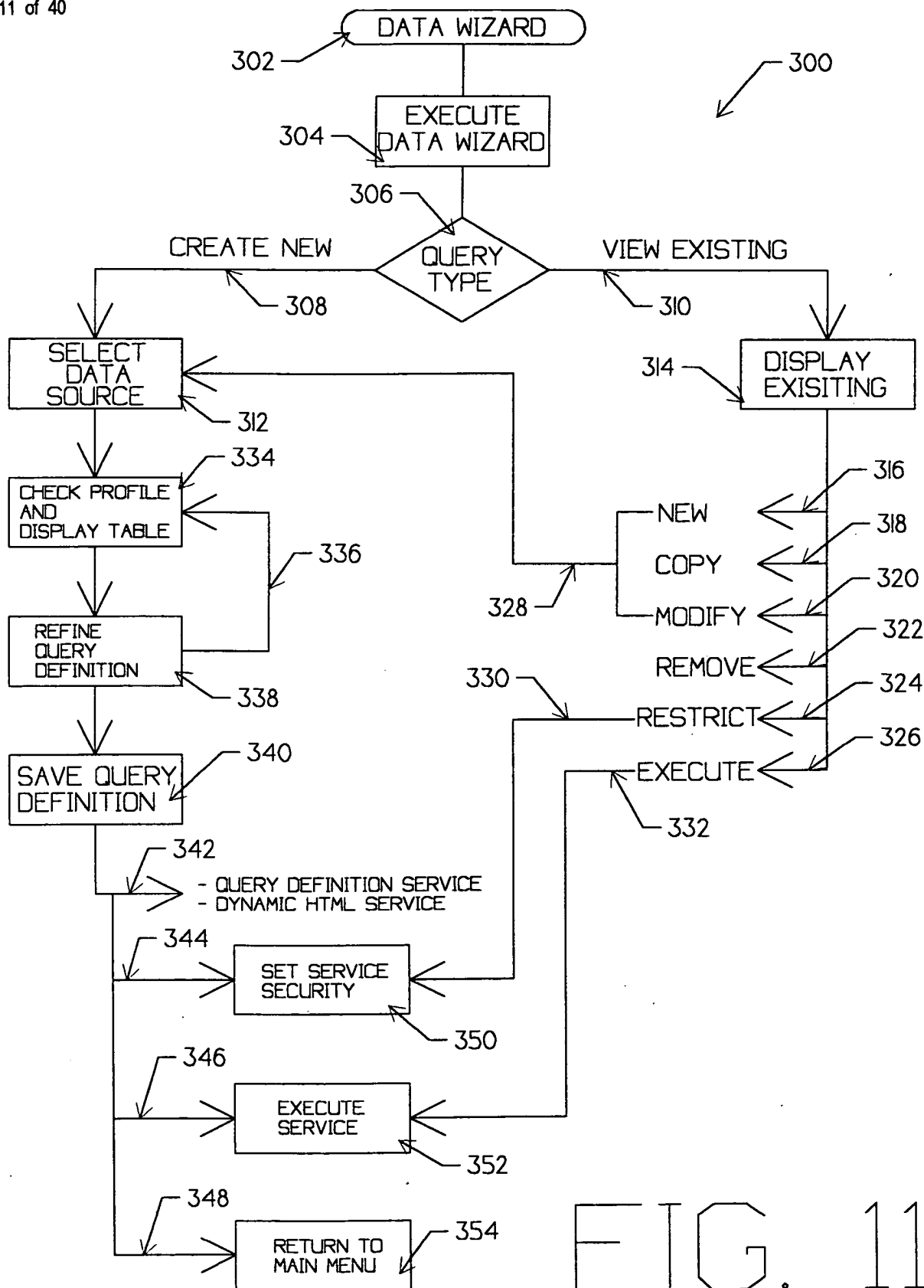


FIG. 11

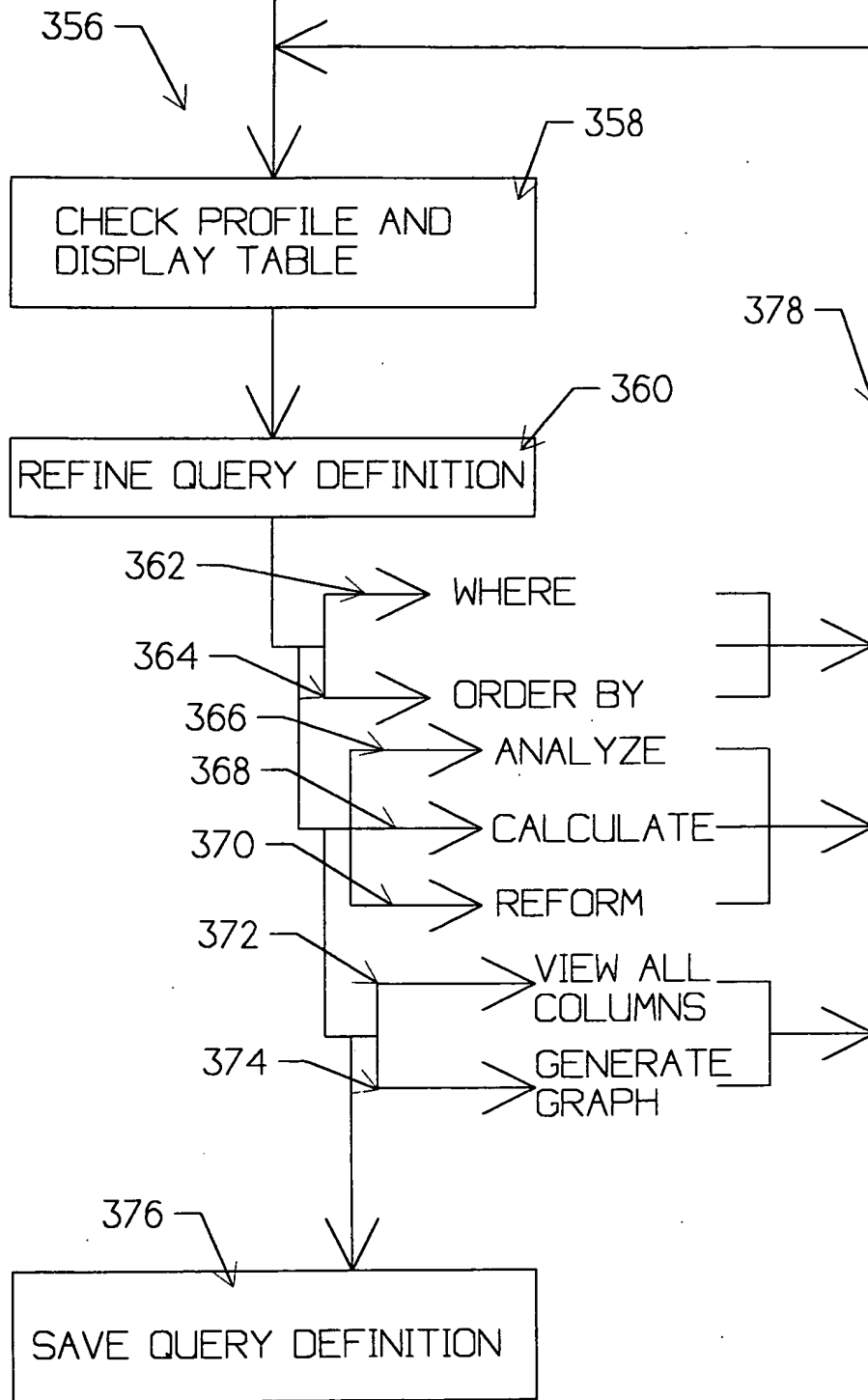


FIG. 12

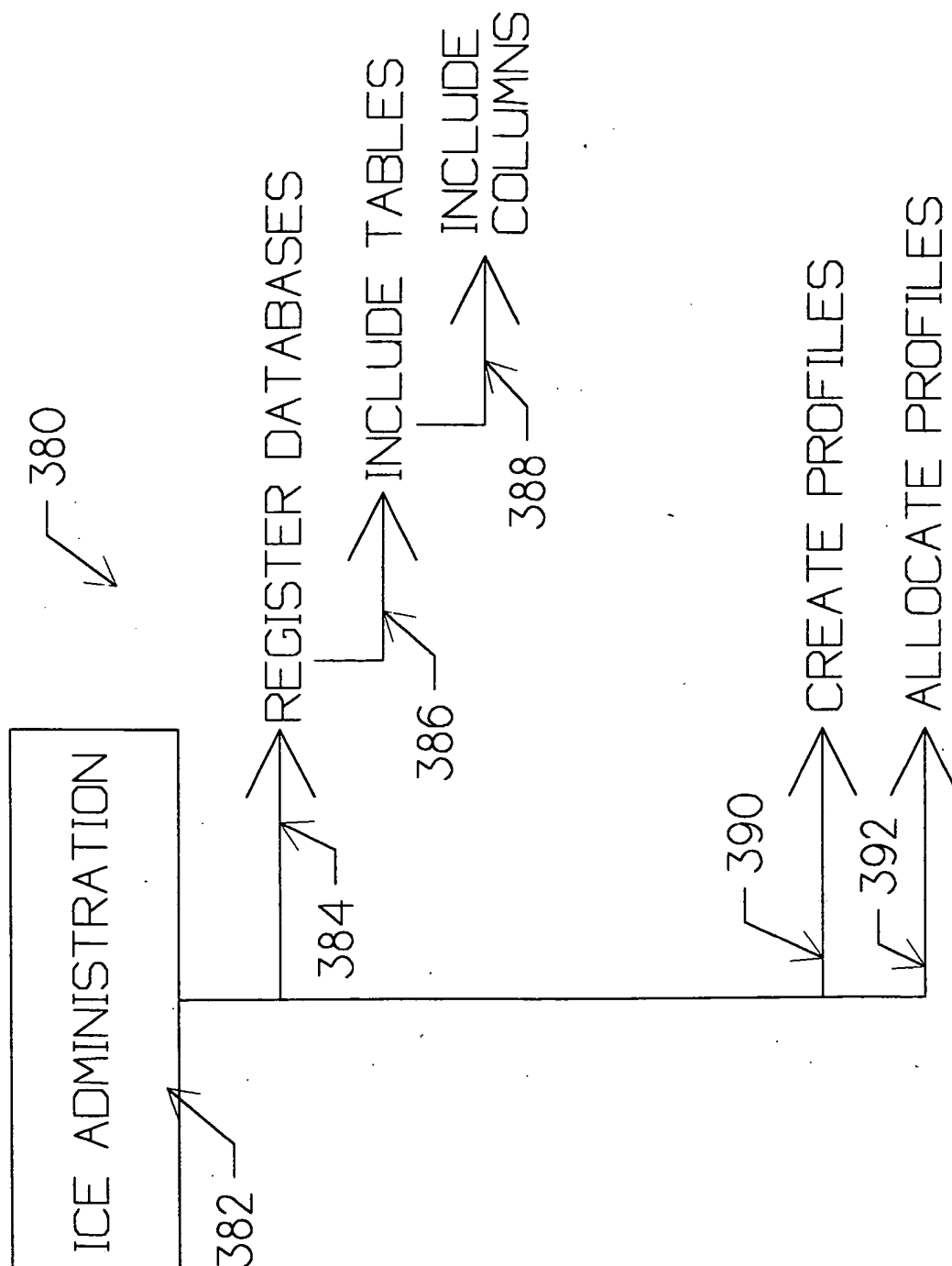


FIG. 13

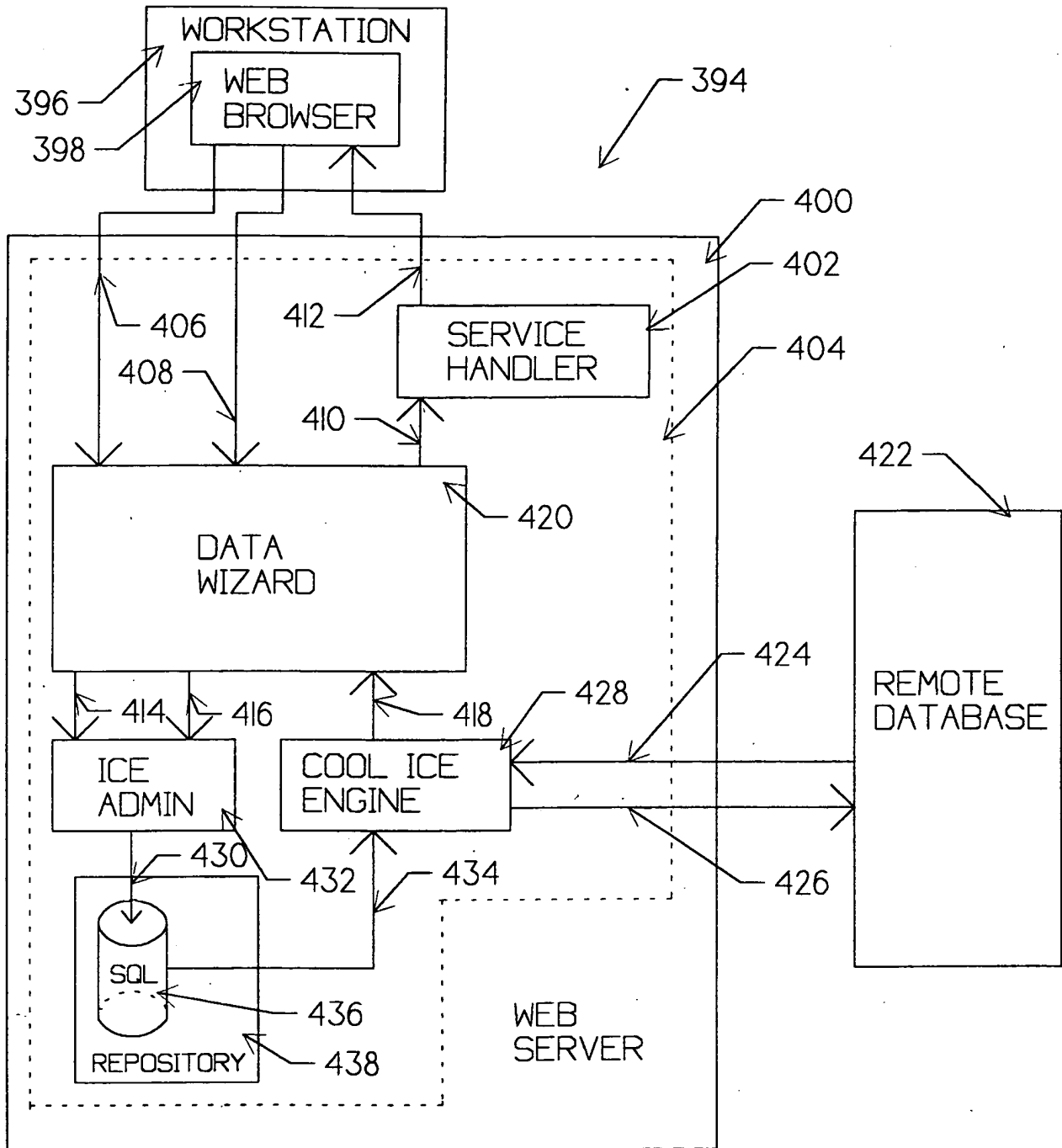


FIG. 14

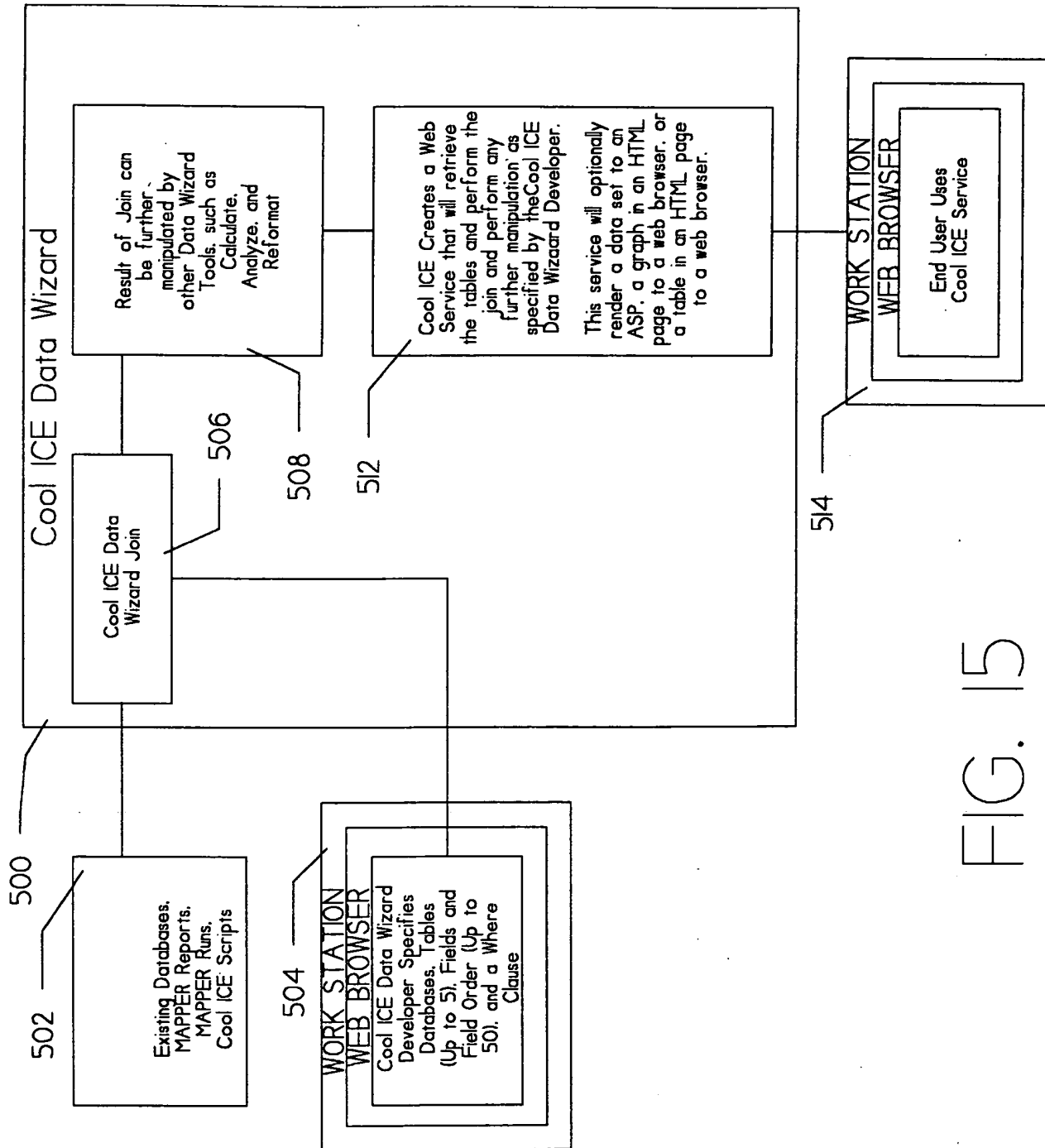
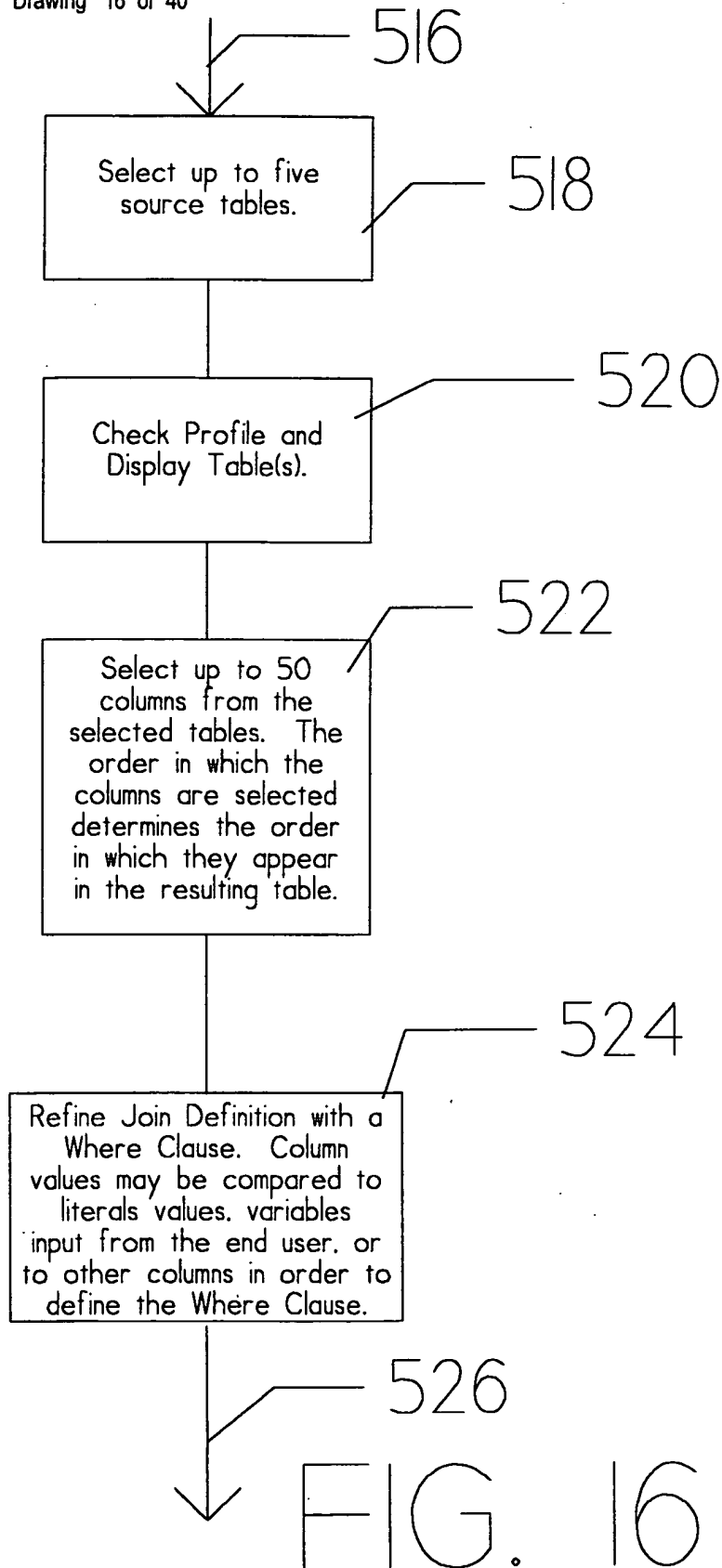


FIG. 15





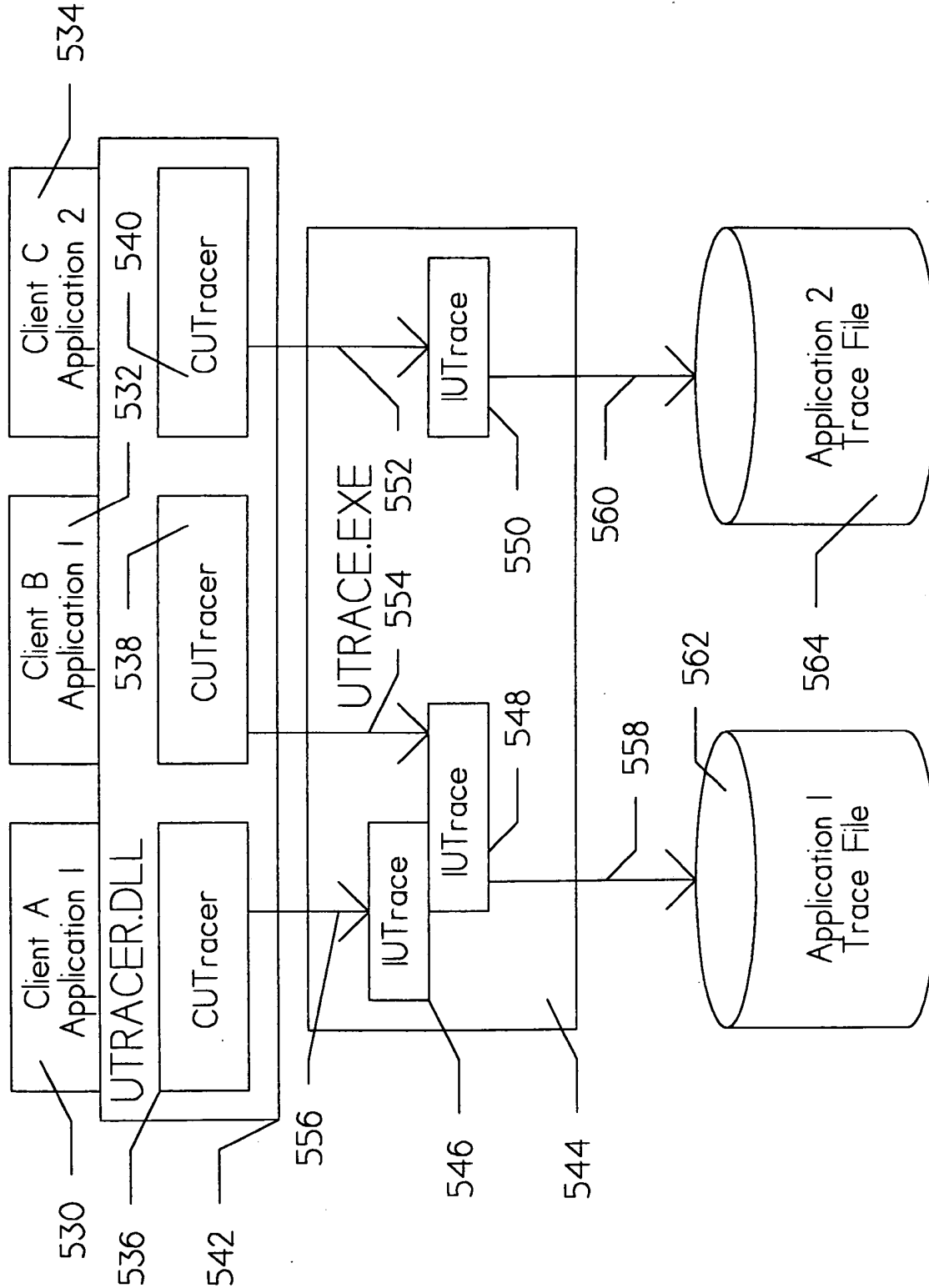


FIG. 17

FIG. 18

HKLM\SOFTWARE\UNISYS\UTRACE

APPNAME -- Subkey matching the name of the application 565

|              |   |
|--------------|---|
| ENABLETRACE  | -- DWORD value indicating a Boolean (1=trace, 0=no trace).  |
| MAXENTRIES   | -- DWORD value indicating the maximum number of entries in the trace file. If missing, then no upper limit is imposed.        |
| FORMATFLAGS  | -- DWORD value indicating message formatting flags.   |
| POLICYFLAGS  | -- DWORD value indicating trace policy flags set for the application.   |
| TRACELEVEL   | -- DWORD value indicating a trace level. 0 = no trace.  |
| TRACEPATH    | -- String value indicating the directory path for the trace files.  |
| REGTRACE     | -- A string value containing the HKLM\Software sub key to trace for this application. Blank or missing for no registry trace. |
| COMPONENT    | -- A subkey for a specific component of the application.  |
| POLICYFLAGS  | -- Value indicating component level trace policy flags  |
| TRACELEVEL   | -- DWORD Value indicating a trace level. 0 = no trace.  |
| VERSIONTRACE | -- String value specifying executable component name for version information tracing.   |

FIG. 18

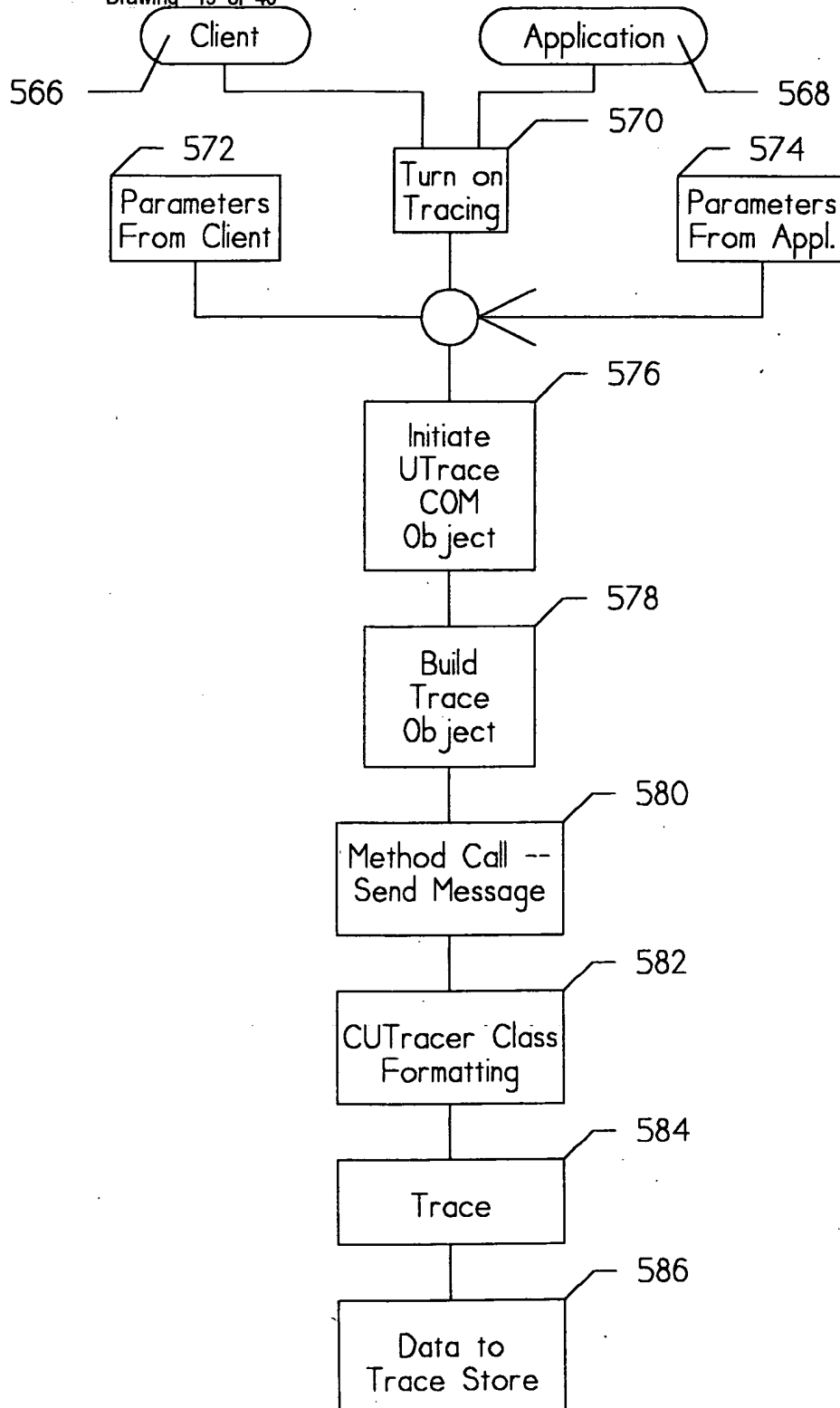


FIG. 19

```
#define CI_TRACE_VERSION      0x1
#define CI_TRACE_ERROR        0x2
#define CI_TRACE_INTERFACE     0x4
#define CI_TRACE_FLOW          0x8
#define CI_TRACE_DETAIL        0x10
```

FIG. 20A

```
if (m_trace.Active(CI_TRACE_DETAIL))
m_trace<<"MY Detailed Trace information"<<Localvariable<<traceit
```

FIG. 20B

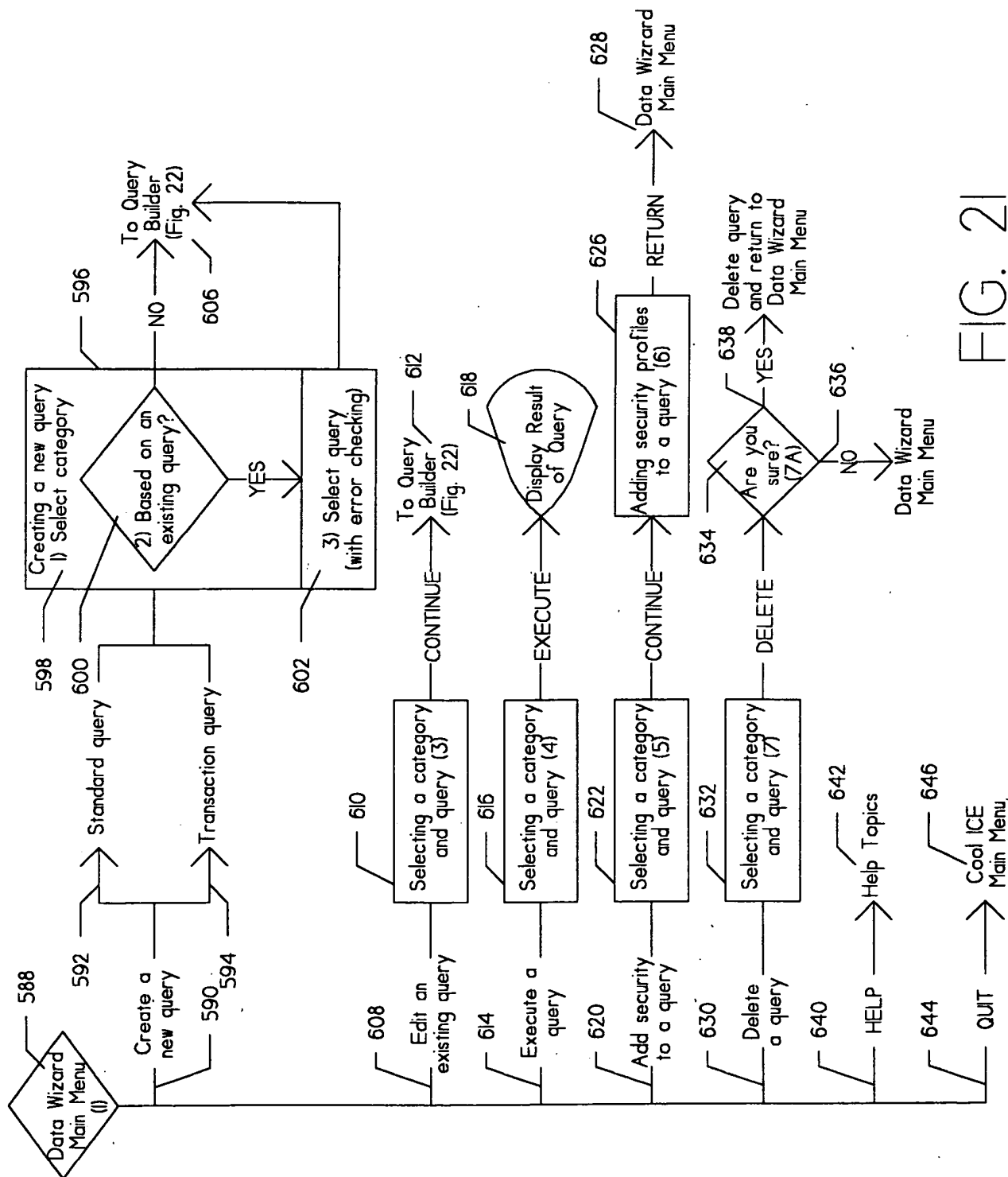


FIG. 21

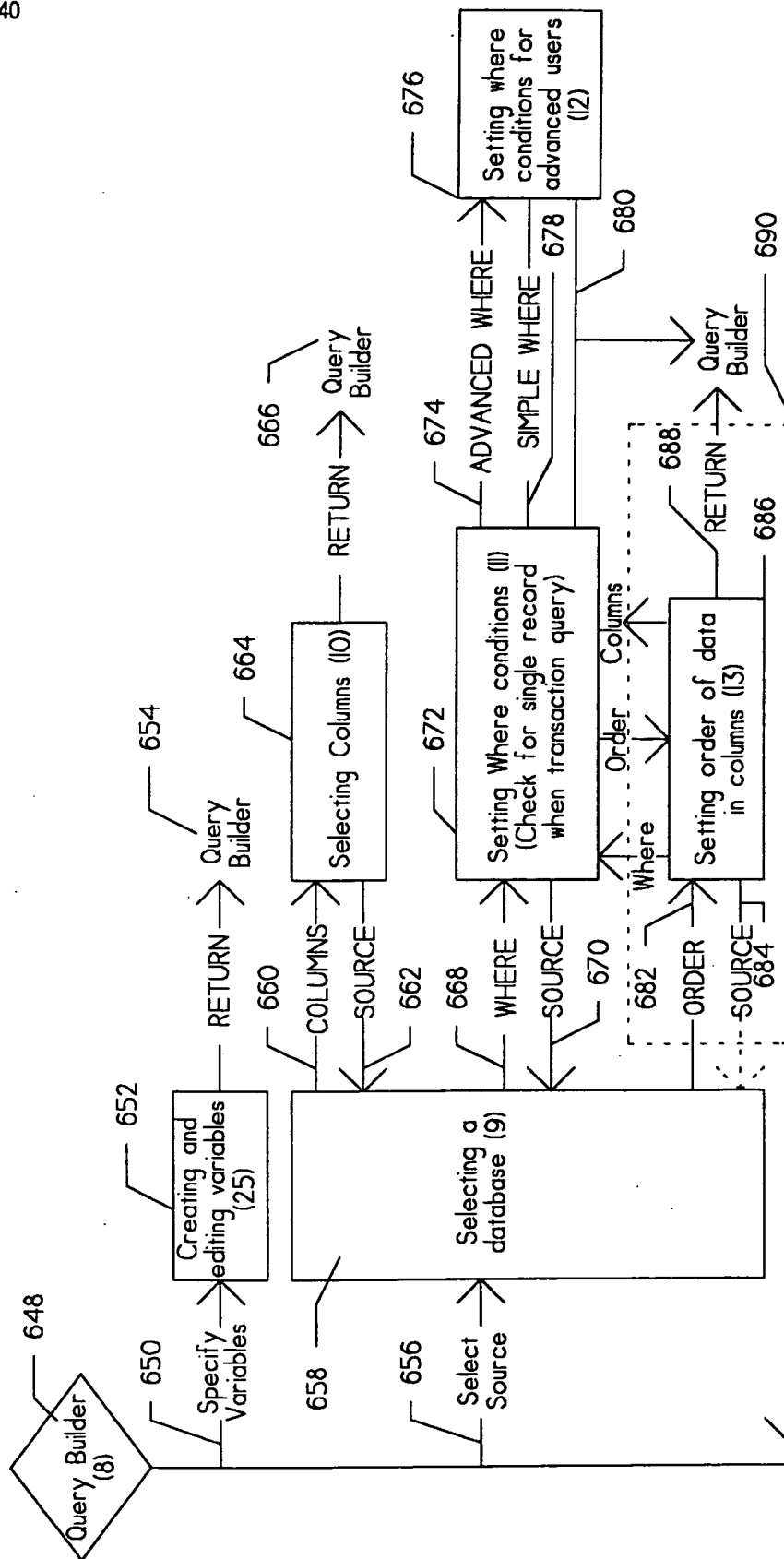


FIG. 22A

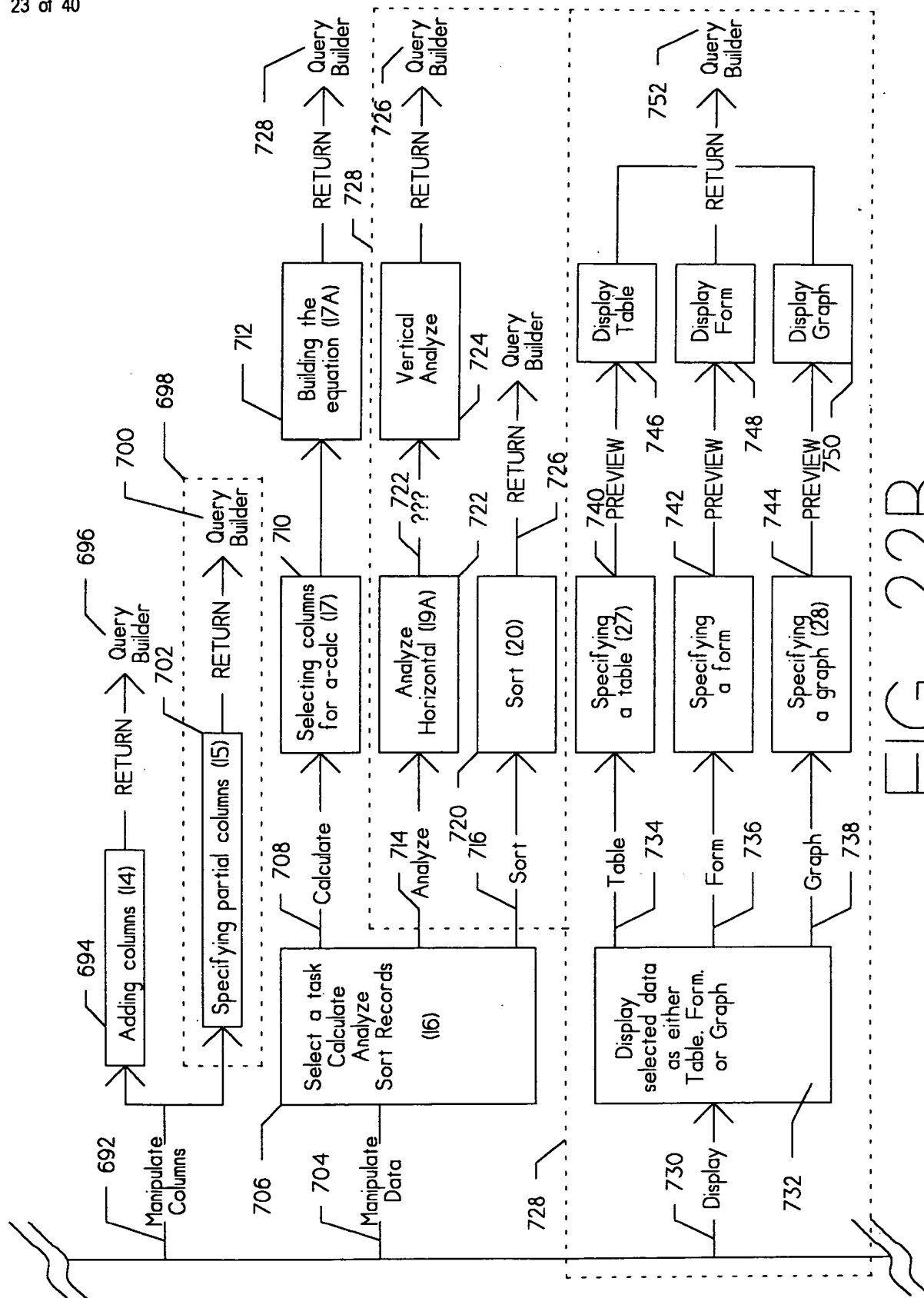


FIG. 22B

FIG. 22C

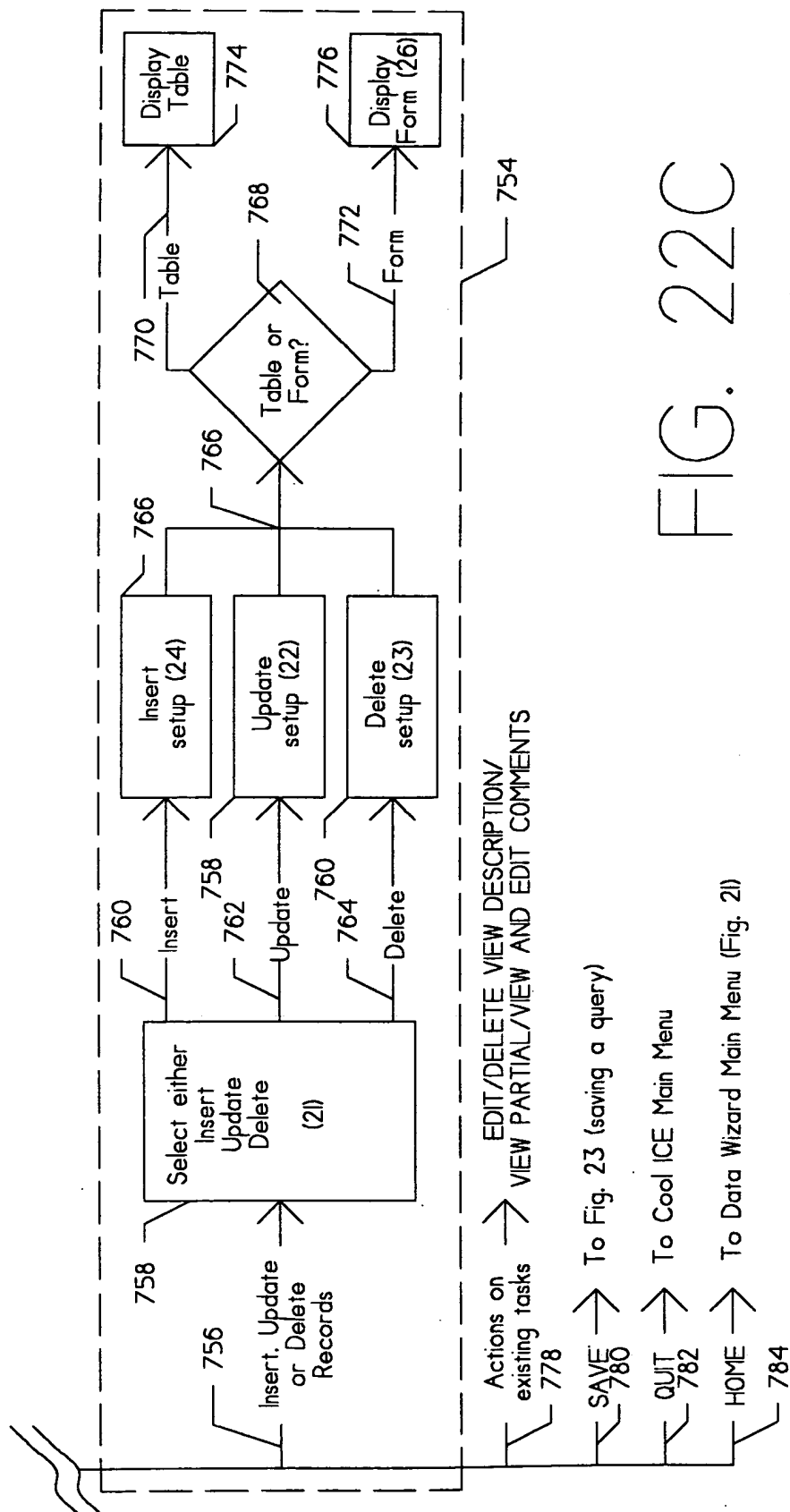


FIG. 22C



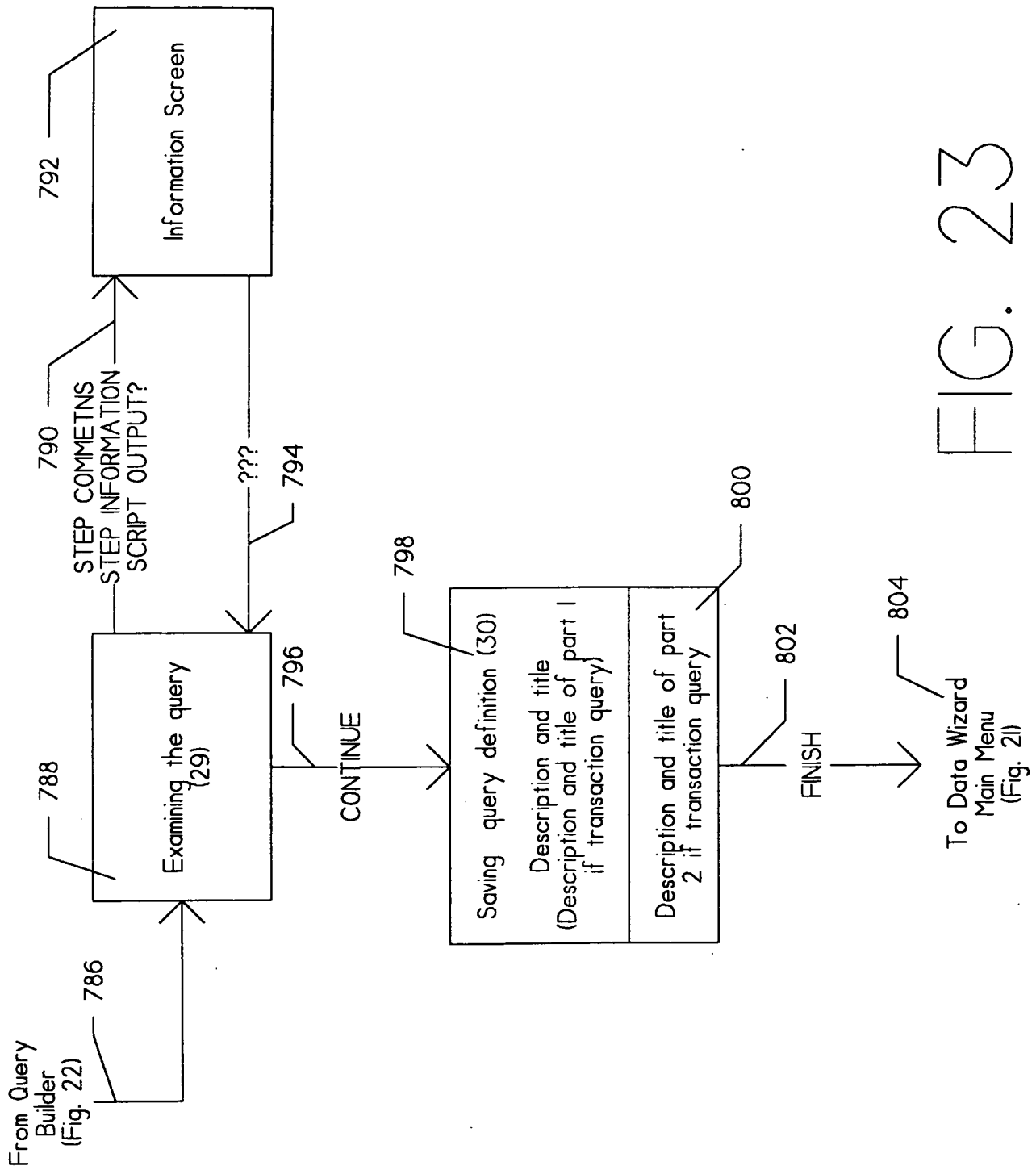


FIG. 23

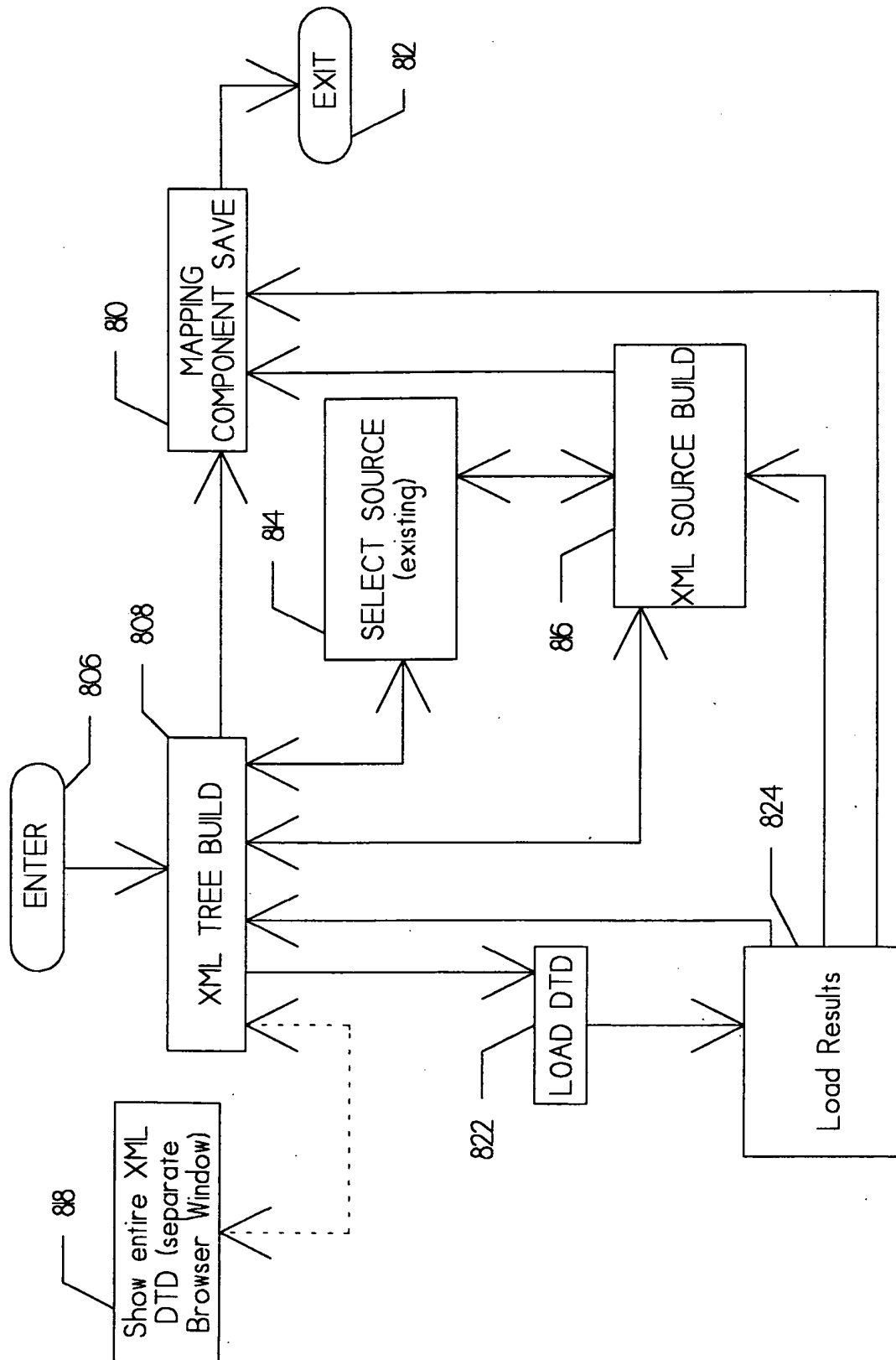


FIG. 24

XML-Mapper -- Microsoft Internet Explorer  
File Edit View Favorites Tools Help

# Component Builder

## UNISYS

☐ Variables

☐ Tables

☐ Article

☐ Article

☐ Author

☐ Editor

☐ Date

☐ Edition

☐ Headline

☐ Byline

☐ Lead

☐ Newspaper
 ☐ Article
 ☐ Author
 ☐ Editor
 ☐ Date
 ☐ Edition
 ☐ Headline
 ☐ Byline
 ☐ Lead
 ☐ Body

XML-Mapper -- Microsoft Internet Explorer  
File Edit View Favorites Tools Help

838 Newspaper  
840 Article  
842 Author  
844 Editor  
846 Date  
848 Edition  
850 Headline  
852 Byline  
854 Lead  
Body  
Notes

o Tables  
o Article  
o Article  
o Author  
o Editor  
o Date  
o Edition  
o Headline  
o Byline  
o Lead  
o Body  
o Notes

Mapping Type Name Conversion  
Open M 868 Capital M 864  
Table Mapping Complete M 866

Element Properties  
Item Type Element Form  
Sequence M Rpt Rpt 860  
Mapping 860  
Row Iterator M  
Value 862 863

Actions 865  
Clear Mapping  
Add Sibling above  
Add Sibling below  
Add Childred  
Add Attributes  
Delete Branch  
Compact View  
Show Representation

826

FIG. 26

Patent Application

XML-Mapper -- Microsoft Internet Explorer  
File Edit View Favorites Tools Help

Component Builder UNISYS

Home Quit Cancel Help

871 XML MAPPING ELEMENTS 872 [Redisplay] 874 [Sources] 873 [Save] 876 [Upload DTD]

ELEMENTS 858

- Root
- 
- 
- 
- 
- 

CONTROLS

Mapping Type ☒ Open 868 ☐ Name Conversion ☒ Capital 864

Table Mapping ☒ Complete 866

Element Properties

Item Type ☒ Sequence 860 ☐ Element Form ☒ Rpt Rpt 861

Mapping ☒ Row Iterator 862 ☐ Value 863

870

FIG. 27

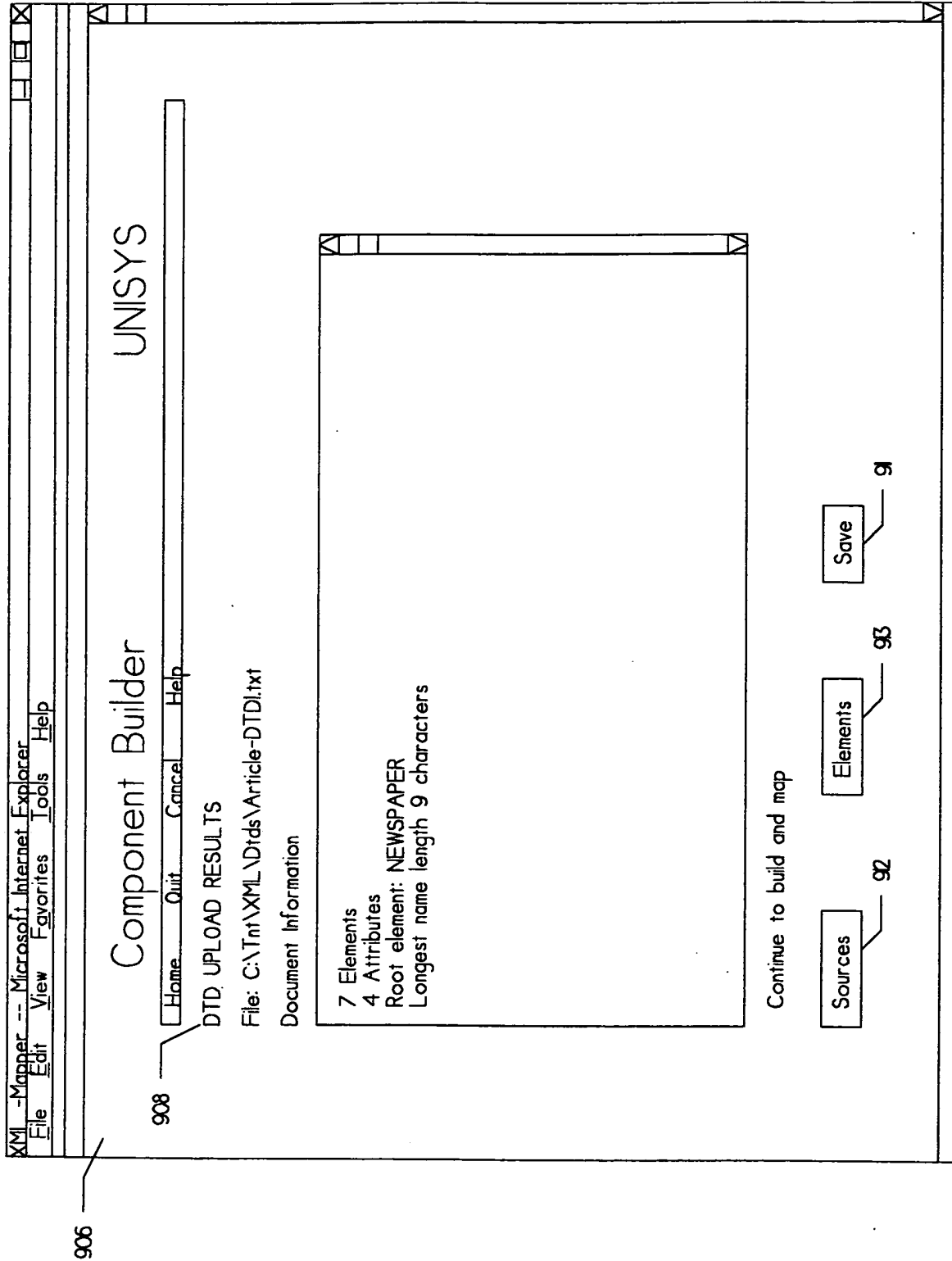


FIG. 28

IDENTIFICATION EXAMPLE

Version:AC:0.0 90  
Truncation:AC:0 92  
TypeCheck:AC:0 93  
ShoeData:ED:0:R 94  
From:DE:I:R  
From:EV:Supplier:20:string  
TableType:ED:I:R  
TableType:EV:TableInfo:50:string  
Inventory:ED:I:R  
Inventory:BT:Inventory:7  
Inventory:IH:ITEMNUMBER:I0  
Inventory:IH:QTY:5  
Inventory:IH:TYPE:I0  
Inventory:IH:GENDER:6  
Inventory:IH:SIZE:3  
Inventory:IH:COLOR:3I  
Inventory:IH:UNITCOST:I3  
Date:AD:I:R  
Date:AV:Date:I0:string  
Time:AD:I:R  
Time:AV:Time:5:string  
Row:ED:2:R  
Row:BR:I  
ItemNr:ED:2:R  
ItemNr:EF:I:ITEMNUMBER:I0:R:string  
Quantity:AD:2:R  
Quantity:AF:I:QTY:5:R:string  
Type:ED:2:R  
Type:EF:I:TYPE:I0:L:string  
Gender:ED:2:0  
Gender:EF:I:GENDER:6:L:string:UniSex  
Size:ED:2:R  
Size:EF:I:SIZE:3:L:string  
Color:ED:3:0  
Color:EF:I:COLOR:3:L:string:White  
Unitcost:ED:2:R  
Unitcost:EF:I:UNITCOST:I3:R:string  
Row:EE:2  
Row:ER:a  
Inventory:EE:I 96  
Inventory:ET:I

FIG. 29

DTD EXAMPLE 98

<!DOCTYPE ShoeData [

```
<ELEMENT ShoeData (From, TableType, Inventory)>
<ELEMENT From (#PCDATA)>
<ELEMENT TableType (#PCDATA)>
<ELEMENT Inventory (Row+)>
<!ATTLIST Inventory Date CDATA #REQUIRED>
<!ATTLIST Inventory Time CDATA #REQUIRED>
<ELEMENT Row (ItemNr, Type, Gener?, Size, Color?, Unitcost)+>
<ELEMENT ItemNr (#PCDATA)>
<!ATTLIST ItemNr Quantity CDATA #REQUIRED>
<ELEMENT Type (#PCDATA)>
<ELEMENT Gender (#PCDATA)>
<ELEMENT Size (#PCDATA)>
<ELEMENT Color (#PCDATA)>
<ELEMENT Unitcost (#PCDATA)>
```

FIG. 30



XML INPUT DOCUMENT EXAMPLE

920

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<ShoeData>
  <From>Roseville Store</From>
  <TableType>Low Inventory Count</TableType>
  <Inventory Date>"2000-12-05" Time="11:51">
    <Row>
      <ItemNr Quantity="0">32335</ItemNr>
      <Type>Tennis</Type>
      <Gender>Mens</Gender>
      <Size>6</Size>
      <Color>White/Zen Grey/New Spruce</Color>
      <Unitcost>25.00</Unitcost>
    </Row>
    <Row>
      <ItemNr Quantity="0">35410</ItemNr>
      <Type>Running</Type>
      <Gender>Womens</Gender>
      <Size>5</Size>
      <Color>White/Zen Grey/Neptune Blue</Color>
      <Unitcost>19.70</Unitcost>
    </Row>
    <Row>
      <ItemNr Quantity="0">3541K</ItemNr>
      <Type>Running</Type>
      <Gender>Womens</Gender>
      <Size>6</Size>
      <Color>White/Zen Grey/Neptune Blue</Color>
      <Unitcost>19.70</Unitcost>
    </Row>
    <Row>
      <ItemNr Quantity="2">35420</ItemNr>
      <Type>Running</Type>
      <Gender>Womens</Gender>
      <Size>5</Size>
      <Color>White/Chlorine Blue/Hot Lime</Color>
      <Unitcost>19.70</Unitcost>
    </Row>
    <Row>
      <ItemNr Quantity="1">3742K</ItemNr>
      <Type>Golf</Type>
      <Gender>Womens</Gender>
      <Size>8</Size>
      <Color>White/Fluorescent Pink</Color>
      <Unitcost>35.00</Unitcost>
    </Row>
  </Inventory>
</ShoeData>
  <Color>White/Black-Hot Lime, Neo Teak</Color>
  <Unitcost>40.00</Unitcost>
</Row>
<Row>
  <ItemNr Quantity="0">32474</ItemNr>
  <Type>Tennis</Type>
  <Gender>Womens</Gender>
  <Size>8</Size>
  <Color>White/Light Marine-Ultramarine</Color>
  <Unitcost>25.00</Unitcost>
</Row>
<Row>
  <ItemNr Quantity="1">35310</ItemNr>
  <Type>Running</Type>
  <Gender>Mens</Gender>
  <Size>6</Size>
```

FIG. 31

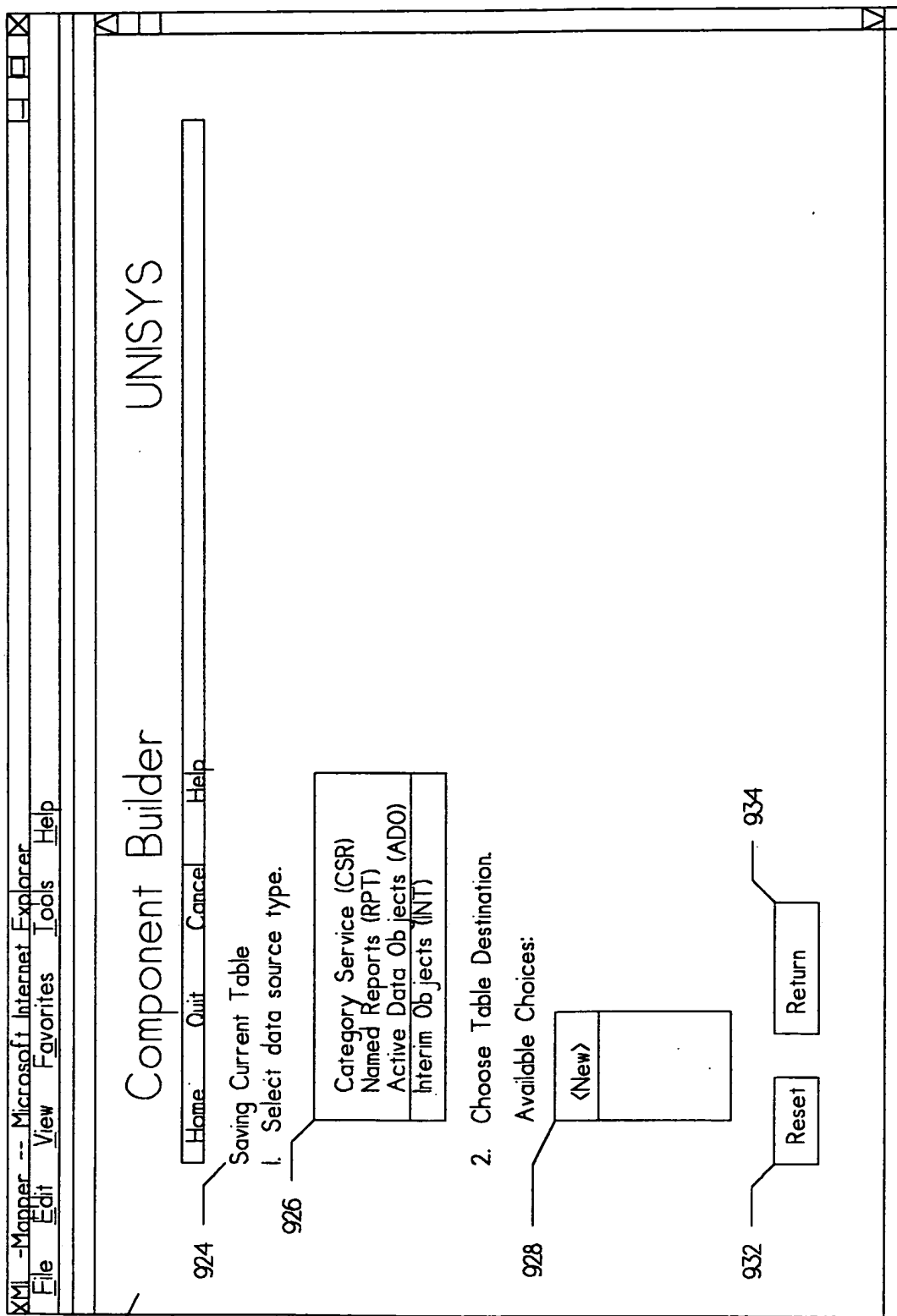


FIG. 32

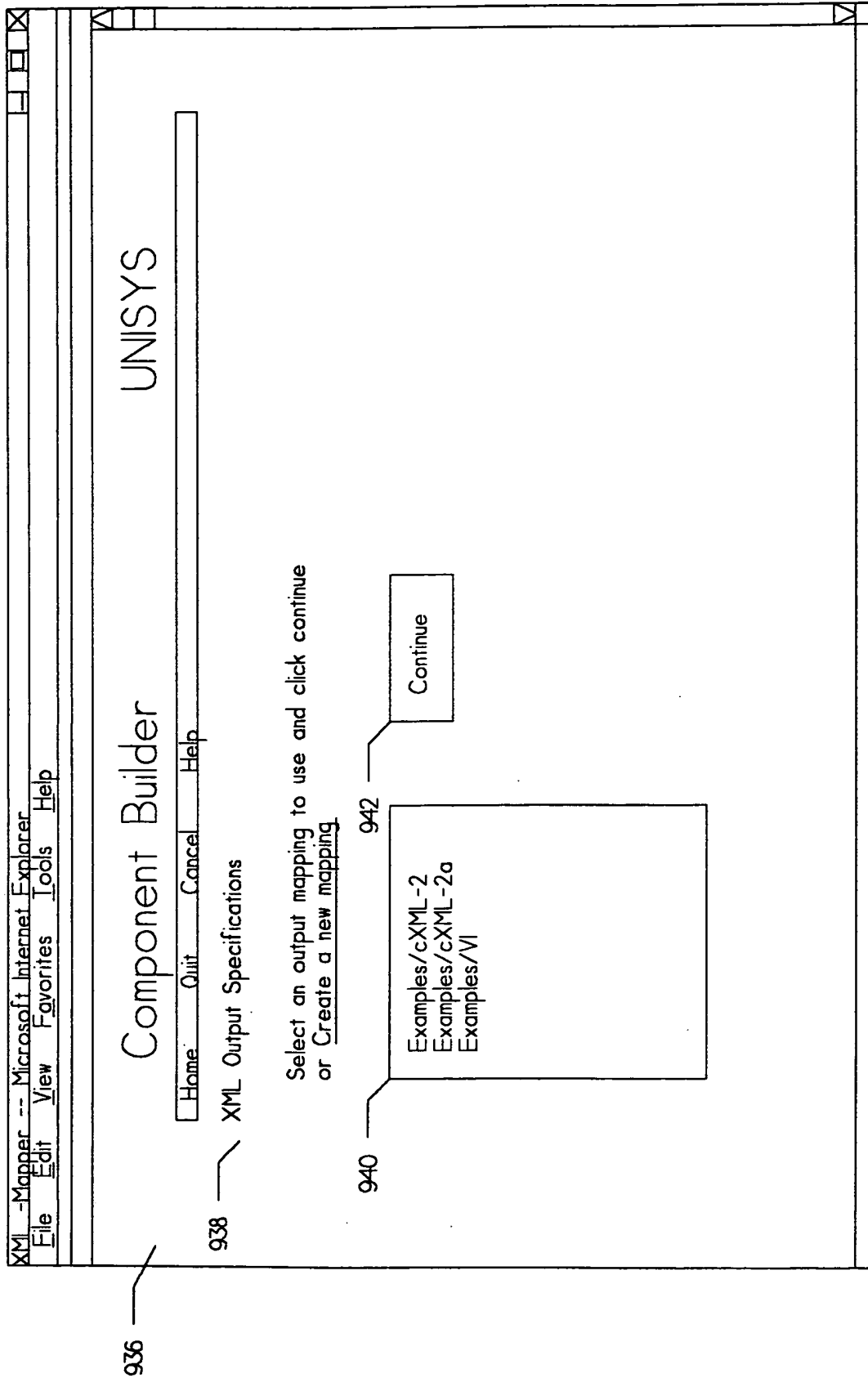


FIG. 33

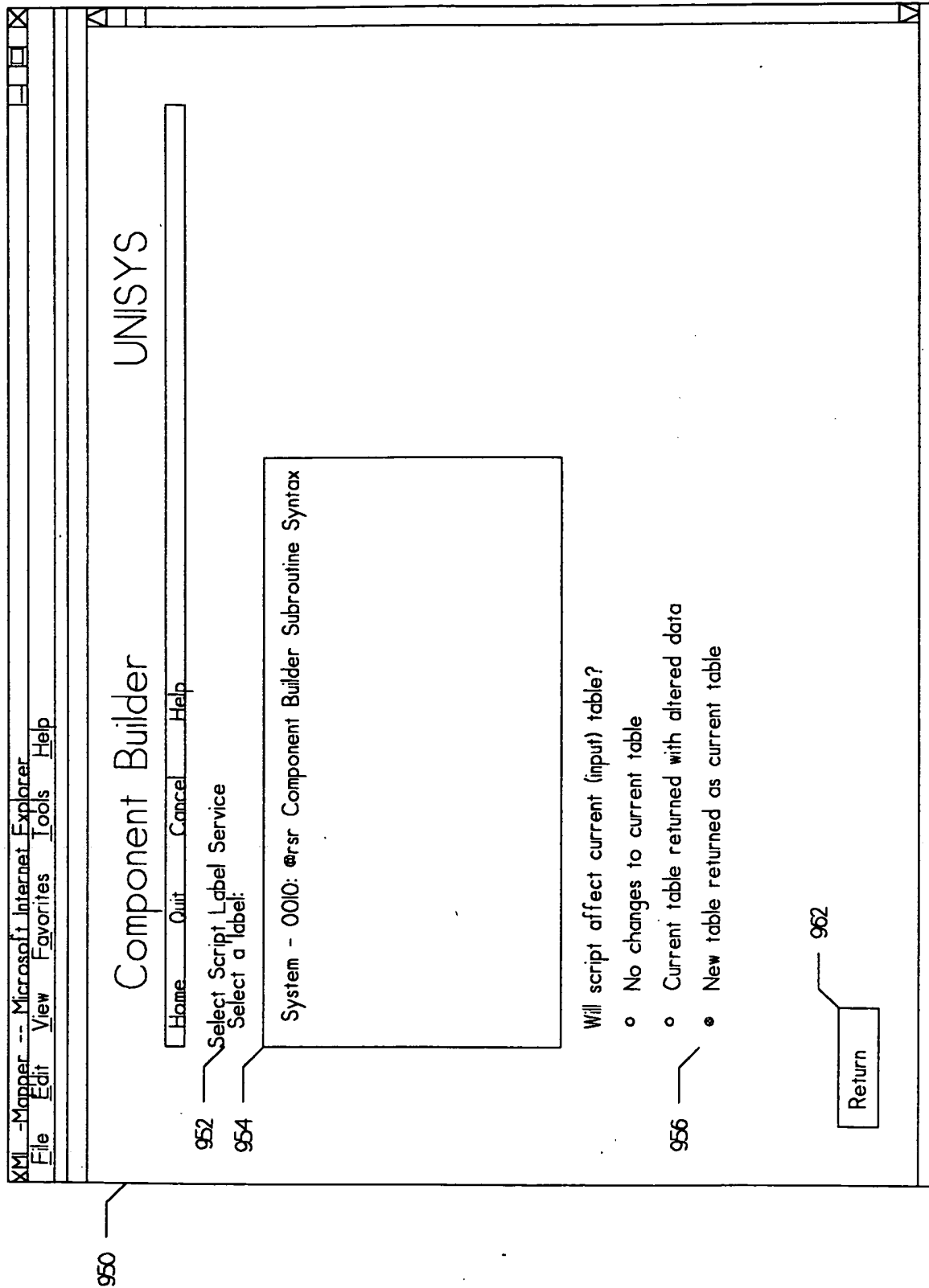


FIG. 34

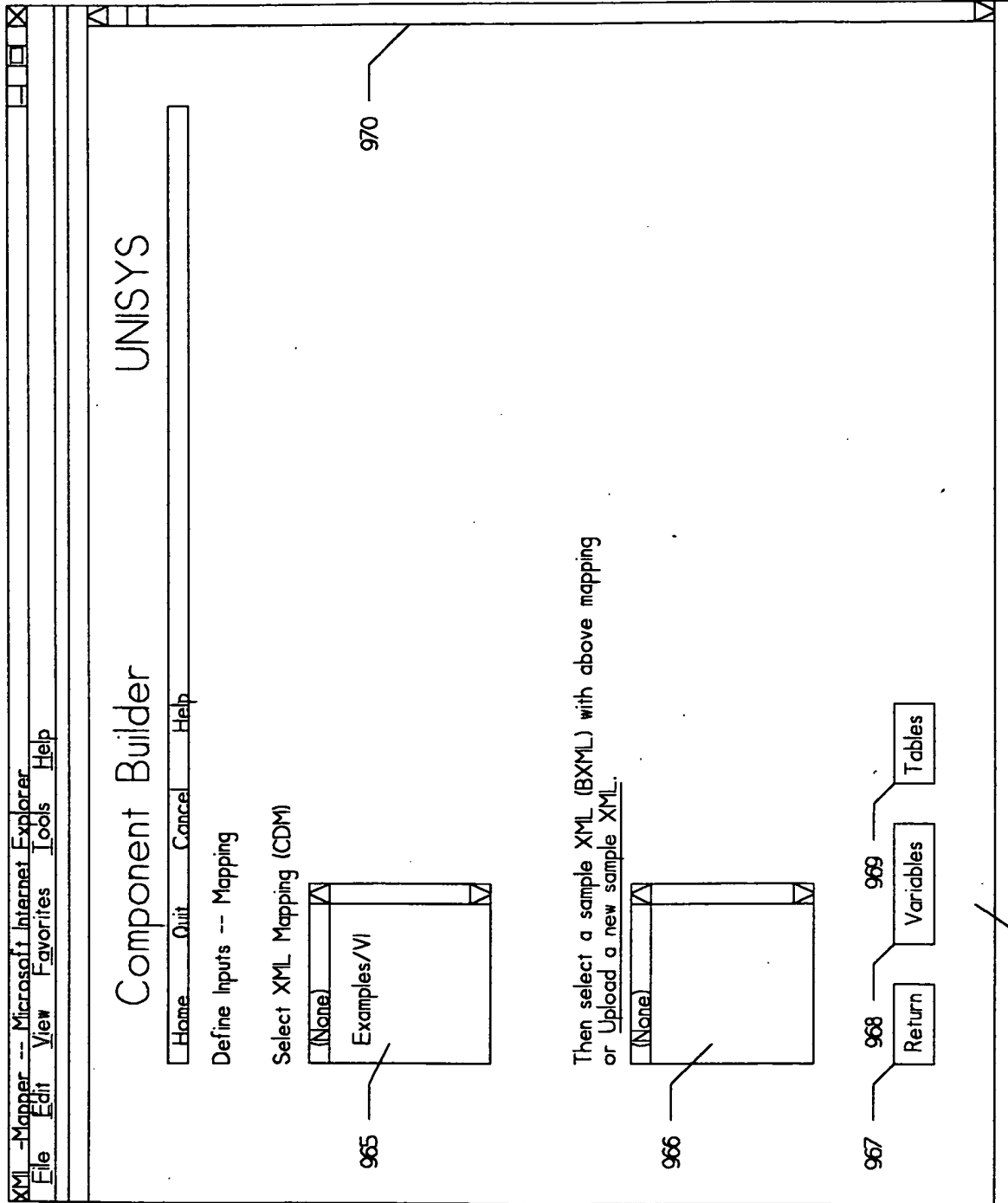


FIG. 35

XML-Mapper -- Microsoft Internet Explorer  
File Edit View Favorites Tools Help

# Component Builder

Home Quit Cancel Help

Define Inputs -- Variables

Current Variables

973

974

Delete

Add a New Variable

970

Name: 975

Size: 976

Type: 977

Default Value: 978

979

Comment:

980

Clear 981

Reset 982

967

971

Return

969

Input Mappings

Tables

972

FIG. 36

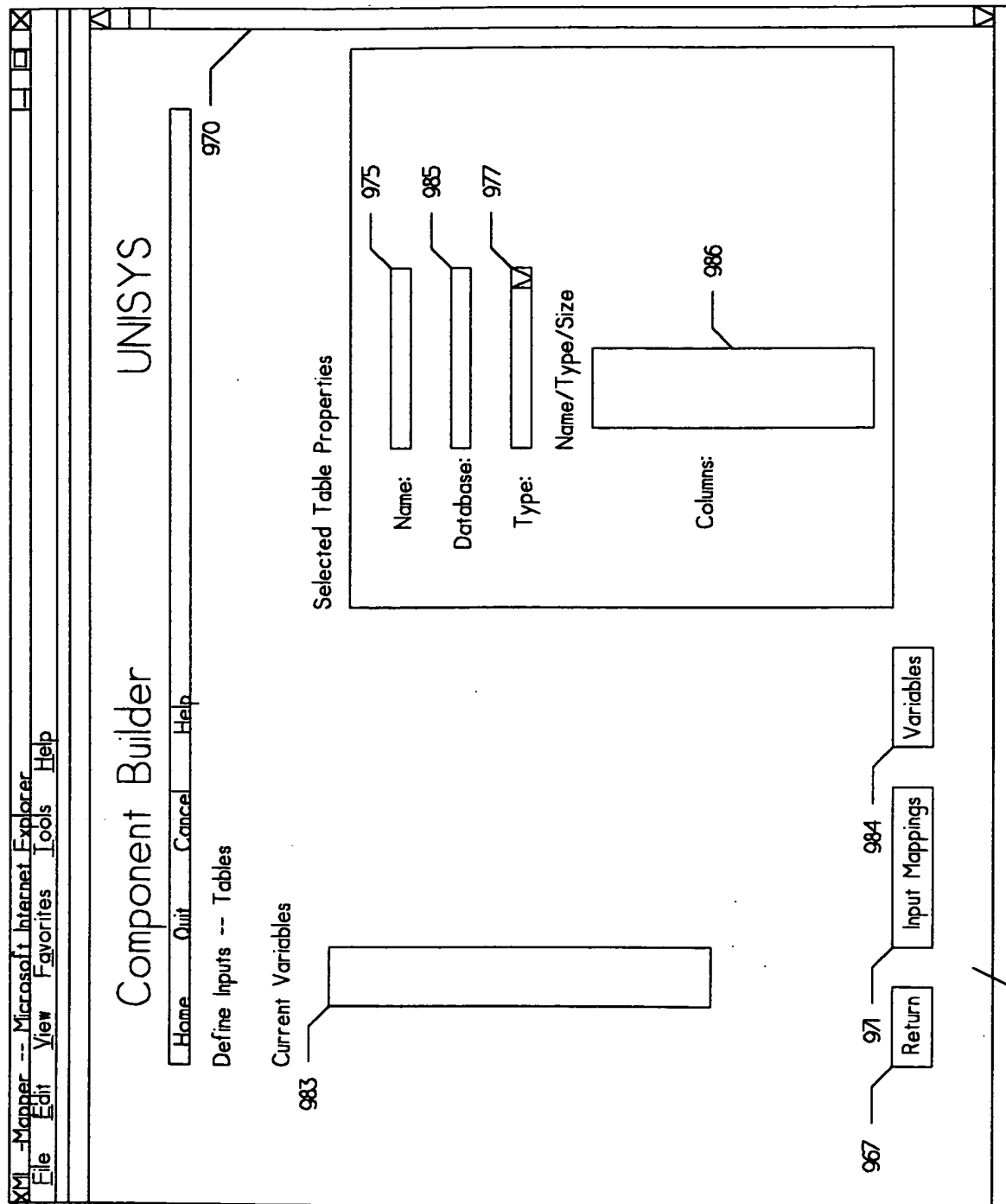


FIG. 37

XML-Mapper -- Microsoft Internet Explorer  
File Edit View Favorites Tools Help

Component Builder

UNISYS

Home Quit Cancel Help

Define Inputs -- Upload BXML

970

988 Input XML File Name Browse

989 Input Category and Service to Save To

990

967 Return

987

FIG. 38